



PRODUCT CATALOG

DC-110GHz COMPONENTS

- HIGH PRECISION RF AND MICROWAVE MODULES MANUFACTURER



YOUR DEDICATED RF & MICROWAVE COMPONENTS PARTNER



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About Us

Fasnwave Inc. is a specialized manufacturer of DC to 110GHz RF and microwave components, offering a comprehensive range from passive components and active devices to interconnect solutions. Our product portfolio includes filters, couplers, power dividers, switches, amplifiers, frequency sources, cable assemblies, connectors, attenuators, terminations, and circulators/isolators. These components are widely used in test & measurement, military & defense, and wireless communication applications.

With over a decade of industry expertise, we combine cutting-edge R&D with advanced manufacturing capabilities. Our engineering team consists of highly qualified professionals with both top-tier education and extensive industry experience. Our state-of-the-art manufacturing facility features advanced equipment, complete process control, and strict quality management throughout the entire production cycle – from raw material inspection to final shipment.

Backed by a professional global sales and technical support team, we provide customized solutions to clients worldwide, ensuring reliable performance, innovative designs, and responsive service. At Fasnwave, we go beyond manufacturing components – we enable the future of high-frequency connectivity.

Our Main Products:

Products	Description
Cables & Assemblies	Ultra Low Loss, Phase Stable Cable, VNA Cables, Ruggedized Test Cables, Ultra-Flexible Cable and Semi-rigid and Semi-flex cables & assemblies
Filters	Bandpass, bandstop, lowpass and highpass filters
Multiplexer/Combiners	Diplexers, Triplexers...Combiners
Couplers	Single Directional, Bi-directional, dual directional, 90 & 180 deg. hybrid couplers
Power Dividers/Combiners	Resistive power dividers, Wilkinson power dividers
Amplifiers	Power Amplifiers, low noise amplifiers
Attenuators	Fixed, rotary stepped and continuously variable attenuators with wide frequency coverage and multiple power options.
Terminations	Terminations with wide frequency coverage and multiple power options.
Frequency Sources	DRO, OCXO, PLDRO, VCO
Switches	Coaxial Switches
Circulators & Isolators	Coaxial, drop-in and surface mount circulators & isolators

Our Advantages:

- With industry-leading performance and advanced technical capability
- 100% Inspection on All Products
- From Prototype to Production, Fully Supported
- Fast Delivery – Most Products Within 4 Weeks

Cables and Assemblies

Fasnwave cable assemblies feature specialized structural designs and advanced wrapping processes, delivering excellent electrical and mechanical performance. Supported by a professional laboratory and rigorous testing methods, Fasnwave products ensure high reliability and consistency. With frequency capability up to 110 GHz, they are well suited for phased array radar, satellite communications, aerospace, production lines, and laboratory testing, ect.

Our Main Cables and Assembly Series:

Series A: Low-Loss & Phase-Stable Cables and Assemblies

Series B: Low-Loss & High-Power Cables and Assemblies

Series C: Interconnection Cables and Assemblies

Series SF: Semi-Flexible RF Cables and Assemblies

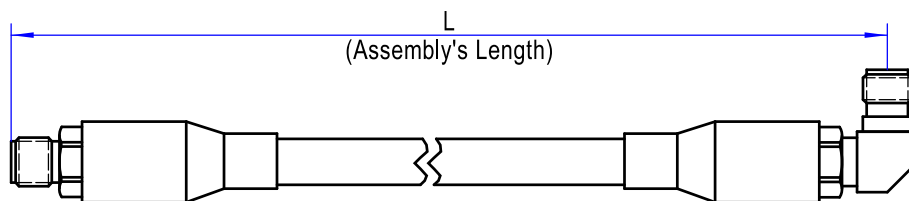
Series SR: Economical Semi-Rigid Cables and Assemblies

Series TR: High-Precision Test Cables and Assemblies

Series VN: VNA Test Cables & Assemblies

Series Z: Low-Loss and Ultra-Flexible Cables and Assemblies

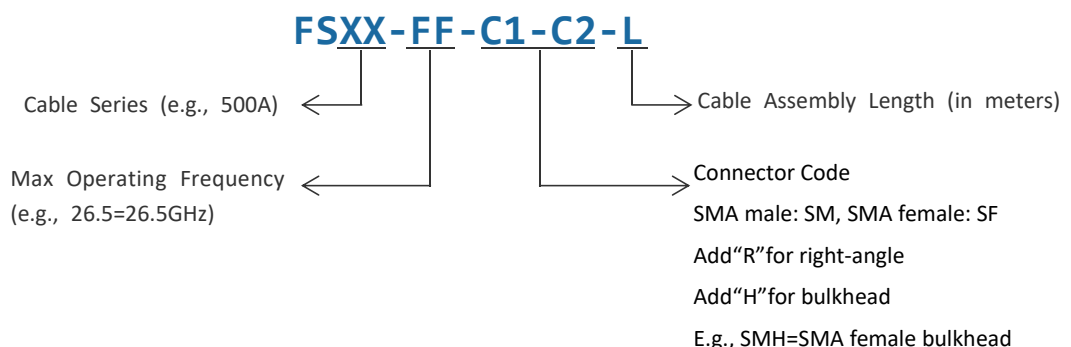
Cable Assembly Length Definition:



Notes:

- Length is measured from one connector end to the other connector end, as shown above. For right-angle connectors, the measurement starts from the centerline of the pin.
- Length is customizable.

Model Number System:



For Example: FS500A-26.5-SM-SFH-1 represent FS500A cable, 26.5GHz, SMA male to SMA female bulkhead, 1 meter length.

Cross Reference

The cross-reference information provided is based on a comparison between selected Faswave cable assemblies and comparable cable models from well-known international manufacturers. This reference is intended to assist customers in identifying alternative solutions with similar performance characteristics. Final product selection should be based on detailed specifications and application requirements.

Faswave Series	Faswave Model	Equivalent Manufacturer	Equivalent Model
A Series	FS150A	Gore	CXN3657
A Series	FS220A	Gore	CXN3506
A Series	FS360A	Gore	CXN3507
A Series	FS400A	Huber&Suhner	SUCOFLEX-102
A Series	FS800A	Huber&Suhner	SUCOFLEX-104
A Series	FS830A	Huber&Suhner	SUCOFLEX-106
B Series	FS460B	Times	SFT142
B Series	FS520B	Times	SFT205
B Series	FS635B	Times	SFT304
B Series	FS1000B	Times	SFT393
B Series	FS1500B	Times	SFT600
C Series	FS280C	Times	T-Flex405
C Series	FS280C	Huber&Suhner	Multiflex86
C Series	FS400C	Times	T-Flex402
C Series	FS400C	Huber&Suhner	Multiflex141
C Series	FS700C	Times	T-Flex401
Z Series	FS600Z	Huber&Suhner	SUCOFLEX-126
SR Series	FS086SR	Times	CLL50086
SR Series	FS141SR	Times	CLL50141
SF Series	FS086SF	Huber&Suhner	Sucoform_86
SF Series	FS141SF	Huber&Suhner	Sucoform_141
SF Series	FS250SF	Huber&Suhner	Sucoform_250

Series A: Low-Loss & Phase-Stable Cables and Assemblies

FASNWAVE's A-Series is a high-performance flexible RF cables and assemblies, available in enhanced (AX) and armored (AR) versions. It supports frequencies up to 40 GHz with customizable lengths to meet specific application needs.

Key features:

- Ultra-low loss
- stable phase/amplitude
- Low PIM
- Excellent temperature phase stability

Applications:

- Phased array radar
- Avionics
- Electronic warfare
- Microwave testing



Cable Construction:



No	Description	Outer Diameter (mm)								Material
		FS150A	FS220A	FS360A	FS400A	FS500A	FS800A	FS830A	FS1000A	
1	Inner Conductor	0.30	0.50	0.91	1.05	1.45	2.30	2.44	3.00	Silver Plated Copper
2	Dielectric	0.88	1.38	2.50	2.85	3.99	6.20	6.50	8.24	Low Density PTFE
3	Inner Shield	1.00	1.54	2.66	3.05	4.19	6.44	6.90	8.48	SPC Strip
4	Outer Shield	1.18	1.95	3.11	3.40	4.60	7.05	7.65	9.20	SPC Braid
5	Jacket	1.50	2.20	3.60	4.00	5.20	7.90	8.30	10.00	PFA

Electronic and Mechanical Specifications:

Description	FS150A	FS220A	FS360A	FS400A	FS500A	FS800A	FS830A	FS1000A
Operating Freq.(GHz)	40	40	40	40	26.5	18	18	10
Cut-off Freq. (GHz)	128	83	46	41	29	18	18	13.5
Impedance	50Ω							
Velocity of Propagation	75%	81%	82%	82%	83%	83%	83%	83%
Shielding Effectiveness	>90dB							
Dielectric Withstanding Voltage(VDC)	600	1000	1000	1500	1500	3000	3000	3000
Passive Intermodulation (PIM)	-155dBc							
Phase Change vs Temperature	<1000PPM	<750PPM@-55~+85 °C						
Static Bending Radius (mm)	8	11	18	20	26	39	42	50
Dynamic Bending Radius (mm)	15	22	36	40	52	79	83	100
Weight (g/m)	5.4	16	33	36	60	130	162	206
Temperature	-55~+125°C				-55~+165°C			-55~+105°C

Typical Cable Attenuation(dB/100m) VS Frequency, @+25 °C, VSWR=1.0

Model	1GHz	2GHz	3GHz	6GHz	8GHz	10GHz	12.4GHz	16GHz	18GHz	26.5GHz	40GHz	K Factors
FS150A	113.7	161.6	198.5	282.9	328.0	368.0	411.3	-	499.3	611.5	760.4	K1: 3.557846 K2: 0.001221
FS220A	63.7	90.8	111.9	160.4	186.49	209.79	235.16	-	287.06	354.0	444.0	K1: 1.975832 K2: 0.001221
FS360A	37.5	53.4	65.6	93.8	108.9	122.3	136.9	-	166.7	204.8	255.7	K1: 1.168470 K2: 0.000550
FS400A	33.5	47.5	58.3	82.8	95.8	107.2	119.7	-	144.7	176.4	218.1	K1: 1.054470 K2: 0.000180
FS500A	23.4	33.3	41.0	58.5	67.9	76.3	85.4	-	103.8	127.5	-	K1: 0.730000 K2: 0.000328
FS800A	14.7	21	26	37.3	43.4	48.8	54.8	62.8	67	-	-	K1: 0.456300 K2: 0.000320
FS830A	13.3	18.9	23.4	33.6	39.1	44.1	49.5	56.9	60.6	-	-	K1: 0.408997 K2: 0.000320
FS1000A	10.4	15	18.7	27.2	31.9	36.1	40.8	47.2	50.5	-	-	K1: 0.316177 K2: 0.000448

Notes:

Typical attenuation values for Fasnwave cables at various frequencies are listed in the tables above. These values are calculable based on cable construction parameters. Cable attenuation is derived from factors related to the center conductor characteristics and the dielectric properties of each cable type. The total insertion loss (IL_{total}) is the sum of cable attenuation and the loss of both connectors.

Total IL Calculation: $IL_{total} = Atten_{cable} + IL_{conn1} + IL_{conn2}$

Cable attenuation(dB/100m)= $K1*\sqrt{F(MHz)} + K2*F(MHz)$; Connector attenuation(dB) = $0.03*\sqrt{F(GHz)}$

Power Handling(W) VS Frequency, @+40 °C, VSWR=1.0, Sea Level

Model	1GHz	2GHz	3GHz	6GHz	8GHz	10GHz	12.4GHz	16GHz	18GHz	26.5GHz	40GHz
FS150A	39	27	22	16	14	12	11	-	9	7	6
FS220A	110	77	63	44	38	33	30	-	24	20	16
FS360A	509	358	291	203	175	156	139	-	115	93	75
FS400A	634	447	365	257	222	198	178	-	147	120	97
FS500A	1128	793	645	451	389	346	309	-	254	207	-
FS800A	2303	1614	1309	912	783	696	620	541	507	-	-
FS830A	2433	1703	1380	960	824	731	651	567	532	-	-
FS1000A	3512	2440	1996	1350	1151	1016	900	778	727	-	-

Connectors Options and VSWR

Connectors	FS150A	FS220A	FS360A	FS400A	FS500A	FS800A	FS830A	FS1000A	Freq.(Max)	VSWR (Max)
1.0mm(W)	√								110GHz	1.30:1
1.85mm(V)	√	√							67GHz	1.30:1
2.4mm(2)	√	√	√						40GHz	1.30:1
2.92mm(K)	√	√	√	√	√				40GHz	1.30:1
SSMA(J)		√	√						40GHz	1.30:1
SMP(P)		√							40GHz	1.30:1
SSMP(M)	√	√							40GHz	1.30:1
3.5mm(3)		√	√	√	√				33GHz	1.25:1
SMA(S)	√	√	√	√	√	√	√		26.5GHz	1.25:1

Connectors	FS150A	FS220A	FS360A	FS400A	FS500A	FS800A	FS830A	FS1000A	Freq.(Max)	VSWR (Max)
N(N)		√	√	√	√	√	√	√	18GHz	1.25:1
TNC(T)			√	√	√	√			18GHz	1.25:1
SC (E)						√	√	√	6GHz	1.25:1
BNC(B)		√	√	√	√				4GHz	1.25:1

Note: Connector material, gender and other connector options may be available upon request. Please contact Fasnwave to confirm availability and current stock. The connectors listed above represent standard options and may not include the full range of Fasnwave connector offerings.

Series AX: Enhanced Low-Loss & Phase-Stable Cables and Assemblies

Fasnwave's AX Series is an enhance version of our A-series cable assemblies , supporting up to 40 GHz with customizable lengths.

Key features:

- Ultra-low loss
- stable phase/amplitude
- Low PIM
- Excellent temperature phase stability

Applications:

- Phased array radar
- Avionics
- Electronic warfare
- Microwave testing



Cable Construction:



No	Description	Outer Diameter (mm)				Material
		FS360AX	FS400AX	FS500AX	FS750AX	
1	Inner Conductor	0.91	1.05	1.45	2.10	Silver plated Copper
2	Dielectric	2.50	2.85	3.99	5.70	Low Density PTFE
3	Inner Shield	2.66	3.05	4.19	5.95	SPC Strip
4	Interlayer	2.95	3.30	4.45	6.20	Low Density PTFE
5	Outer Shield	3.35	3.65	4.85	6.80	SPC Braid
6	Jacket	3.90	4.20	5.40	7.60	PFA

Electronic and Mechanical Specifications:

Description	FS360AX	FS400AX	FS500AX	FS750AX
Operating Freq.(GHz)	40	40	26.5	18
Cut-off Freq. (GHz)	46	41	29	20
Impedance	50Ω			
Velocity of Propagation	82%		83%	
Shielding Effectiveness	>90dB			
Dielectric Withstanding Voltage(VDC)	1000	1500	1500	2500
Passive Intermodulation (PIM)	-155dBc			
Phase Change vs Temperature	<750PPM@-55~+85 °C			
Static Bending Radius (mm)	20	21	27	37
Dynamic Bending Radius (mm)	40	42	54	74
Weight (g/m)	35	37	63	118
Temperature	-55~+165°C			

Typical Cable Attenuation(dB/100m) VS Frequency, @+25 °C, VSWR=1.0

Model	1GHz	2GHz	3GHz	6GHz	8GHz	10GHz	12.4GHz	18GHz	26.5GHz	40GHz	K Factors
FS360AX	37.5	53.4	65.6	93.8	108.9	122.3	136.9	166.7	204.8	255.7	K1: 1.168470 K2: 0.000550
FS400AX	33.5	47.5	58.3	82.8	95.8	107.2	119.7	144.7	176.4	218.1	K1: 1.054470 K2: 0.000180

Model	1GHz	2GHz	3GHz	6GHz	8GHz	10GHz	12.4GHz	18GHz	26.5GHz	40GHz	K Factors
FS500AX	23.4	33.3	41.0	58.5	67.9	76.3	85.4	103.8	127.5	-	K1: 0.730000 K2: 0.000328
FS750AX	16.7	23.7	29.1	41.4	47.9	53.7	59.9	68.2	72.5	-	K1: 0.526279 K2: 0.000104

Notes:

Typical attenuation values for Faswave cables at various frequencies are listed in the tables above. These values are calculable based on cable construction parameters. Cable attenuation is derived from factors related to the center conductor characteristics and the dielectric properties of each cable type. The total insertion loss (IL_{total}) is the sum of cable attenuation and the loss of both connectors.

Total IL Calculation: $IL_{total} = Atten_{cable} + IL_{conn1} + IL_{conn2}$

Cable attenuation(dB/100m)= $K1*\sqrt{F(MHz)} + K2*F(MHz)$; Connector attenuation(dB) = $0.03*\sqrt{F(GHz)}$

Power Handling(W) VS Frequency, @+40 °C, VSWR=1.0, Sea Level

Model	1GHz	2GHz	3GHz	6GHz	8GHz	10GHz	12.4GHz	18GHz	26.5GHz	40GHz
FS360AX	509	358	291	203	175	156	139	115	93	75
FS400AX	634	447	365	257	222	198	178	147	120	97
FS500AX	1128	793	645	451	389	346	309	254	207	-
FS750AX	1740	1227	1000	704	608	543	487	427	402	-

Connectors Options and VSWR

Connectors	FS360AX	FS400AX	FS500AX	FS750AX	Freq.(Max)	VSWR (Max)
2.4mm(2)	√				40GHz	1.30:1
2.92mm(K)	√	√	√		40GHz	1.30:1
SSMA(J)	√				40GHz	1.30:1
3.5mm(3)	√	√	√		33GHz	1.25:1
SMA(S)	√	√	√	√	26.5GHz	1.25:1
N(N)	√	√	√	√	18GHz	1.25:1
TNC(T)	√	√	√	√	18GHz	1.25:1
SC(E)				√	6GHz	1.25:1
BNC(B)	√	√	√	√	4GHz	1.25:1

Note 1: Connector material, gender and other connector options may be available upon request. Please contact Faswave to confirm availability and current stock. The connectors listed above represent standard options and may not include the full range of Faswave connector offerings.

Series B: Low Loss & High Power Cables & Assemblies

Fasnwave's B Series offers low-loss, high-power RF cables and assemblies designed for reliable performance up to 18 GHz, with fully customizable lengths.

Key features:

- High power handling
- Low loss & stable VSWR
- High shielding effectiveness
- Low PIM performance

Applications:

- High Power Transmission
- Wireless Telecom
- Aviation Electronics
- Electronic Warfare



Cable Construction:



No	Description	Outer Diameter (mm)							Material
		FS460B	FS520B	FS635B	FS800B	FS1000B	FS1200B	FS1500B	
1	Inner Conductor	1.02	1.29	1.57	2.06	2.44	3.50	4.40	Silver plated Copper
2	Dielectric	3.07	3.85	4.72	5.89	7.24	9.90	12.50	Low Density PTFE
3	Inner Shield	3.27	4.05	4.96	6.05	7.48	10.17	12.74	SPC Strip
4	Interlayer	3.43	4.20	5.10	6.17	7.61	10.30	12.85	High-Temp Aluminum Foil
5	Outer Shield	4.00	4.80	5.66	6.81	8.19	11.02	13.60	SPC Braid
6	Jacket	4.60	5.20	6.35	7.62	9.30	12.00	14.70	PFA

Electronic and Mechanical Specifications:

Description	FS460B	FS520B	FS635B	FS800B	FS1000B	FS1200B	FS1500B
Operating Freq.(GHz)	18	18	18	18	10	10	6
Cut-off Freq. (GHz)	35	28	27	19	15	11	8
Impedance	50Ω						
Velocity of Propagation	76%						
Shielding Effectiveness	>90dB						
Dielectric Withstanding Voltage(VDC)	1500	2000	2500	3000	4000		
Passive Intermodulation (PIM)	-155dBc						
Static Bending Radius (mm)	23	26	32	38	47	60	74
Dynamic Bending Radius (mm)	46	52	64	76	93	120	147
Weight (g/m)	53	67	93	130	193	300	432
Temperature	-55~+200°C						

Typical Cable Attenuation(dB/100m) VS Frequency, @+25 °C, VSWR=1.0

Model	1GHz	2GHz	3GHz	6GHz	8GHz	10GHz	12.4GHz	16GHz	18GHz	K Factors
FS460B	35.4	50.4	62	88.8	103.2	116	129.9	148.7	158.3	K1: 1.099485 K2: 0.000602
FS520B	27.7	39.5	48.7	69.9	81.3	91.5	102.7	117.8	125.5	K1: 0.856234 K2: 0.000591

Model	1GHz	2GHz	3GHz	6GHz	8GHz	10GHz	12.4GHz	16GHz	18GHz	K Factors
FS635B	22.2	31.7	39.2	56.4	65.8	74.2	83.4	95.8	102.2	K1: 0.682743 K2: 0.000591
FS800B	17.6	25.2	31.2	45.1	52.7	59.5	67.1	77.3	82.6	K1: 0.536417 K2: 0.000591

Model	1GHz	2GHz	3GHz	4GHz	5GHz	6GHz	7GHz	8GHz	10GHz	K Factors
FS1000B	14.7	21.1	26.2	30.6	34.5	38.2	41.5	44.7	50.6	K1: 0.446080 K2: 0.000600
FS1200B	13.0	18.7	23.3	27.2	30.7	33.9	37.0	39.8	45.2	K1: 0.391680 K2: 0.000600

Model	0.1GHz	0.3GHz	0.5GHz	0.8GHz	1GHz	2GHz	3GHz	4GHz	5GHz	K Factors
FS1500B	3.1	5.4	7.1	9.1	10.2	14.8	18.4	24.5	27.1	K1: 0.304208 K2: 0.000591

Notes:

Typical attenuation values for Fasnwave cables at various frequencies are listed in the tables above. These values are calculable based on cable construction parameters. Cable attenuation is derived from factors related to the center conductor characteristics and the dielectric properties of each cable type. The total insertion loss (IL_{total}) is the sum of cable attenuation and the loss of both connectors.

Total IL Calculation: $IL_{total} = Atten_{cable} + IL_{conn1} + IL_{conn2}$

Cable attenuation(dB/100m)= $K1*\sqrt{F(MHz)} + K2*F(MHz)$; Connector attenuation(dB) = $0.03*\sqrt{F(GHz)}$

Power Handling(W) VS Frequency, @+40 °C, VSWR=1.0, Sea Level

Model	1GHz	2GHz	3GHz	6GHz	8GHz	10GHz	12.4GHz	16GHz	18GHz
FS460B	569	400	324	227	195	174	155	135	127
FS520B	750	526	426	297	255	227	202	176	165
FS635B	1020	713	557	401	344	305	271	236	221
FS800B	1892	1098	887	613	524	464	412	358	335

Model	1GHz	2GHz	3GHz	4GHz	5GHz	6GHz	7GHz	8GHz	10GHz
FS1000B	2485	1728	1393	1194	1058	958	880	818	722
FS1200B	3323	2306	1856	1588	1406	1271	1167	1083	955

Model	0.1GHz	0.3GHz	0.5GHz	0.8GHz	1GHz	2GHz	3GHz	4GHz	5GHz
FS1500B	14724	8384	6433	5031	4472	3088	2477	1866	1684

Connectors Options and VSWR

Connectors	FS460B	FS520B	FS635B	FS800B	FS1000B	FS1200B	FS1500B	Freq.(Max)	VSWR (Max)
SMA(S)	√	√	√	√	√	√	√	26.5GHz	1.25:1
N(N)	√	√	√	√	√	√	√	18GHz	1.25:1

Note: Connector material, gender and other connector options may be available upon request. Please contact Fasnwave to confirm availability and current stock. The connectors listed above represent standard options and may not include the full range of Fasnwave connector offerings.

Series C: Interconnection Cables & Assemblies

Fasnwave's C Series is a cost-effective interconnect cable solution, offering a flexible alternative to semi-flex and semi-rigid cables and supporting frequencies up to 67 GHz.

Key features:

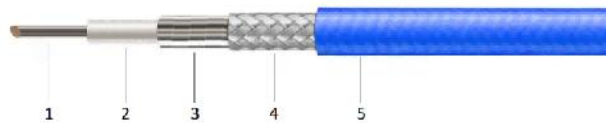
- Low VSWR
- Stable phase performance

Applications:

- Cabinet & chassis interconnect
- RF/microwave test setups



Cable Construction:



Description	Outer Diameter (mm)				Material
	FS160C	FS280C	FS400C	FS700C	
Inner Conductor	0.30	0.53	0.94	1.63	Silver plated Copper
Dielectric	0.97	1.63	3.00	5.30	PTFE
Inner Shield	1.12	1.83	3.20	5.55	SPC Strip
Outer Shield	1.32	2.18	3.55	6.17	SPC Braid
Jacket	1.60	2.65	4.00	7.00	FEP

Electronic and Mechanical Specifications:

Description	FS160C	FS280C	FS400C	FS700C
Operating Freq.(GHz)	67	40	26.5	18
Cut-off Freq. (GHz)	110	61	34	19
Impedance	50Ω			
Velocity of Propagation	70%			
Shielding Effectiveness	>90dB			
Dielectric Withstanding Voltage(VDC)	500	1000	1500	3000
Static Bending Radius (mm)	8	14	20	35
Dynamic Bending Radius (mm)	15	27	40	70
Weight (g/m)	6	20	41	140
Temperature	-55~+125°C			

Typical Cable Attenuation(dB/100m) VS Frequency, @+25 °C, VSWR=1.0

Model	0.5GHz	1GHz	3GHz	6GHz	10GHz	16GHz	18GHz	26.5GHz	40GHz	67GHz	K Factors
FS160C	95.4	135.2	235.1	334.0	433.0	550.49	584.7	713.3	882.46	1154.5	K1: 4.248276 K2: 0.000820
Model	1GHz	2GHz	3GHz	6GHz	8GHz	12.4GHz	18GHz	26.5GHz	40GHz	-	K Factors
FS280C	62.8	91.1	113.7	167.7	197.9	256.0	320.4	407.2	529.5	-	K1: 1.860236 K2: 0.003937
Model	1GHz	2GHz	3GHz	6GHz	8GHz	10GHz	12.4GHz	18GHz	26.5GHz	-	K Factors
FS400C	37.6	55.1	69.3	103.9	123.5	141.6	161.9	205.3	264.7	-	K1: 1.082677 K2: 0.003337

FS700C	25.7	38.7	49.5	77.0	93.1	108.3	125.5	163.3	-	-	K1: 0.688976 K2: 0.003937
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Notes:

Typical attenuation values for Fasnwave cables at various frequencies are listed in the tables above. These values are calculable based on cable construction parameters. Cable attenuation is derived from factors related to the center conductor characteristics and the dielectric properties of each cable type. The total insertion loss (IL_{total}) is the sum of cable attenuation and the loss of both connectors.

Total IL Calculation: $IL_{total} = Atten_{cable} + IL_{conn1} + IL_{conn2}$

Cable attenuation(dB/100m)= $K1*\sqrt{F(MHz)} + K2*F(MHz)$; Connector attenuation(dB) = $0.03*\sqrt{F(GHz)}$

Power Handling(W) VS Frequency, @+40 °C, VSWR=1.0, Sea Level

Model	0.5GHz	1GHz	3GHz	6GHz	10GHz	16GHz	18GHz	26.5GHz	40GHz	67GHz
FS160C	100	71	41	29	22	17	16	13	11	8
Model	1GHz	2GHz	3GHz	6GHz	8GHz	12.4GHz	18GHz	26.5GHz	40GHz	-
FS280C	119	82	66	45	38	29	23	18	14	-
Model	1GHz	2GHz	3GHz	6GHz	8GHz	10GHz	12.4GHz	18GHz	26.5GHz	-
FS400C	290	198	157	105	88	77	67	53	41	-
FS700C	561	373	291	187	155	133	115	88	-	-

Connectors Options and VSWR

Connectors	FS160C	FS280C	FS400C	FS700C	Freq.(Max)	VSWR (Max)
1.85mm(V)	√	√			67GHz	1.30:1
SSMP(M)	√	√			67GHz	1.30:1
2.4mm(2)	√	√			40GHz	1.30:1
2.92mm(K)	√	√	√		40GHz	1.30:1
SSMA(J)	√	√			40GHz	1.30:1
SMP(P)	√	√			40GHz	1.30:1
3.5mm(3)	√	√	√		33GHz	1.25:1
SMA(S)	√	√	√	√	26.5GHz	1.25:1
N(N)		√	√	√	18GHz	1.25:1
TNC(T)			√		18GHz	1.25:1
MCX(C)	√	√		√	6GHz	1.25:1
MMCX(X)	√	√			6GHz	1.25:1
BNC(B)		√	√		4GHz	1.25:1

Note: Connector material, gender and other connector options may be available upon request. Please contact Fasnwave to confirm availability and current stock. The connectors listed above represent standard options and may not include the full range of Fasnwave connector offerings.

Series SF:Semi-Flexible RF Cables & Assemblies

Fasnwave’s Semi-Flexible RF Cable (SF Series), operates up to 40 GHz and is available in both standard and FEP-jacketed versions.

Key features:

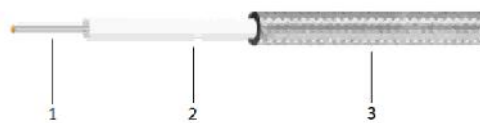
- Hand Formable
- Small bend radius
- Cost-Effective Cable

Applications:

- RF module interconnections
- Radar and antenna feed systems
- Rack/cabinet wiring in limited-space



Cable Construction:



Series SF



Series SF-F

No	Description	Outer Diameter (mm)								Material
		FS047SF	FS047SF-F	FS086SF	FS086SF-F	FS141SF	FS141SF-F	FS250SF	FS250SF-F	
1	Inner Conductor	0.29	0.29	0.52	0.52	0.93	0.93	1.63	1.63	Silver plated Copper
2	Dielectric	0.94	0.94	1.65	1.65	2.98	2.98	5.30	5.30	PTFE
3	Outer Shield	1.19	1.19	2.15	2.15	3.52	3.52	6.20	6.20	Tinned Copper Braid
4	Jacket	-	1.65	-	2.65	-	4.15	-	7.00	FEP

Electronic and Mechanical Specifications:

Description	FS047SF	FS047SF-F	FS086SF	FS086SF-F	FS141SF	FS141SF-F	FS250SF	FS250SF-F
Operating Freq.(GHz)	40	40	40	40	33	33	18	18
Impedance	50Ω							
Signal delay	4.7ns/m							
Velocity of Propagation	70%							
Shielding Effectiveness	>100dB							
Dielectric Withstanding Voltage(VDC)	500		1000		1500		2500	
Static Bending Radius (mm)	3.18	4.0	6.0	6.0	8.0	8.0	30	30
Dynamic Bending Radius (mm)	12	20	20	20	40	40	120	120
Weight (g/m)	6	8	16	19	44	52	120	140
Temperature	-55~+125°C							

Typical Cable Attenuation(dB/100m) VS Frequency, @+25 °C, VSWR=1.0

Model	0.5GHz	1GHz	2GHz	3GHz	5GHz	6GHz	10GHz	18GHz	26.5GHz	33GHz	40GHz	K Factors
FS047SF FS047SF-F	82	118	171	213	-	313	420	595	753	-	977	K1: 3.512916 K2: 0.006852
FS086SF FS086SF-F	50	72	105	131	-	194	261	374	477	-	623	K1: 2.115000 K2: 0.004990
FS141SF FS141SF-F	28	41	60	75	-	112	152	219	281	369	-	K1: 1.193399 K2: 0.003261
FS250SF FS250SF-F	16	24	35	45	62	69	96	144	-	-	-	K1: 0.645600 K2: 0.003180

Notes:

Typical attenuation values for Fasnwave cables at various frequencies are listed in the tables above. These values are calculable based on cable construction parameters. Cable attenuation is derived from factors related to the center conductor characteristics and the dielectric properties of each cable type. The total insertion loss (IL_{total}) is the sum of cable attenuation and the loss of both connectors.

Total IL Calculation: $IL_{total} = Atten_{cable} + IL_{conn1} + IL_{conn2}$

Cable attenuation(dB/100m)= $K1*\sqrt{F(MHz)} + K2*F(MHz)$; Connector attenuation(dB) = $0.03*\sqrt{F(GHz)}$

Power Handling(W) VS Frequency, @+40 °C, VSWR=1.0, Sea Level

Model	0.5GHz	1GHz	2GHz	3GHz	5GHz	6GHz	10GHz	18GHz	26.5GHz	33GHz	40GHz
FS047SF FS047SF-F	45	32	23	18	-	13	10	8	6	-	5
FS086SF FS086SF-F	229	162	115	94	-	66	51	38	31	-	26
FS141SF FS141SF-F	601	425	301	245	-	174	134	100	83	74	-
FS250SF FS250SF-F	1301	920	651	531	411	376	291	217	-	-	-

Connectors Options and VSWR

Connectors	FS047SF	FS047SF-F	FS086SF	FS086SF-F	FS141SF	FS141SF-F	FS250SF	FS250SF-F	Freq.(Max)	VSWR (Max)
1.85mm(V)	√	√	√	√					67GHz	1.30:1
SSMP(M)	√	√	√	√					67GHz	1.30:1
2.4mm(2)	√	√	√	√					40GHz	1.30:1
2.92mm(K)	√	√	√	√	√	√			40GHz	1.30:1
SSMA(J)	√	√	√	√					40GHz	1.30:1
SMP(P)	√	√	√	√					40GHz	1.30:1
3.5mm(3)	√	√	√	√			√	√	33GHz	1.25:1
SMA(S)	√	√	√	√	√	√	√	√	26.5GHz	1.25:1
N(N)					√	√	√	√	18GHz	1.25:1
MCX(C)	√	√	√	√					6GHz	1.25:1

Note: Connector material, gender and other connector options may be available upon request. Please contact Fasnwave to confirm availability and current stock. The connectors listed above represent standard options and may not include the full range of Fasnwave connector offerings.

Series SR: Semi-Rigid Cables & Assemblies

Fasnwave's SR Series offers two semi-rigid cable options—standard cost-effective SR and low-loss SR-X—supporting frequencies up to 40 GHz.

Key features:

- High shielding effectiveness
- Low PIM
- Low loss and low VSWR

Applications:

- Board-to-board interconnect
- Module interconnect
- Airborne/phased-array radar
- Missile-borne systems



Cable Construction:



No	Description	Outer Diameter (mm)							Material
		FS047SR	FS086SR	FS141SR	FS250SR	FS086SR-X	FS141SR-X	FS250SR-X	
1	Inner Conductor	0.29	0.53	0.94	1.63	0.56	0.99	1.78	Silver plated Copper
2	Dielectric	0.95	1.68	2.98	5.28	1.68	3.00	5.33	PTFE
3	Outer Conductor	1.22	2.18	3.58	6.35	2.18	3.58	6.35	Tri-metal plated seamless copper tube

Electronic and Mechanical Specifications:

Description	FS047SR	FS086SR	FS141SR	FS250SR	FS086SR-X	FS141SR-X	FS250SR-X
Operating Freq.(GHz)	40	40	26.5	18	40	26.5	18
Cut-off Freq.(GHz)	110	59	34	24	64	36	19
Impedance	50Ω						
Velocity of Propagation	70%				76%		
Shielding Effectiveness	>165dB						
Dielectric Withstanding Voltage(VDC)	100	500	500	500	500	1000	2200
Static Bending Radius (mm)	4.2	7	10	30	7	15	32
Weight (g/m)	4	21	47	146	21	47	136
Temperature	-55~+125°C				-55~+250°C		

Typical Cable Attenuation(dB/100m) VS Frequency, @+25 °C, VSWR=1.0

Model	1GHz	2GHz	3GHz	6GHz	8GHz	10GHz	12.4GHz	18GHz	26.5GHz	40GHz	K Factors
FS047SR	113.6	162.4	-	288.6	336.4	-	425.9	522.0	646.9	816.3	K1: 3.5016 K2: 0.0029
FS086SR	64.9	93.1	-	166.6	194.7	-	247.6	304.9	379.9	482.7	K1: 1.985320 K2: 0.002140
FS086SR-X	58.3	82.8	-	144.9	168.0	-	210.6	255.5	312.8	388.7	K1: 1.825328 K2: 0.000590
FS141SR	38.2	55.5	-	102.4	120.8	137.7	156.4	195.9	249.2	-	K1: 1.131702 K2: 0.002450
FS141SR-X	31.7	45.5	-	81.7	95.6	108.1	121.8	150.3	187.7	-	K1: 0.965845 K2: 0.001151

Model	1GHz	2GHz	3GHz	6GHz	8GHz	10GHz	12.4GHz	18GHz	26.5GHz	40GHz	K Factors
FS250SR	22.5	34.1	44.0	69.1	84.0	98.1	114.2	149.7	-	-	K1: 0.587270 K2: 0.003937
FS250SR-X	18.3	26.2	32.4	47.0	54.9	62.1	69.9	86.1	-	-	K1: 0.557600 K2: 0.000630

Notes:

Typical attenuation values for Faswave cables at various frequencies are listed in the tables above. These values are calculable based on cable construction parameters. Cable attenuation is derived from factors related to the center conductor characteristics and the dielectric properties of each cable type. The total insertion loss (IL_{total}) is the sum of cable attenuation and the loss of both connectors.

Total IL Calculation: $IL_{total} = Atten_{cable} + IL_{conn1} + IL_{conn2}$

Cable attenuation(dB/100m)= $K1*\sqrt{F(MHz)} + K2*F(MHz)$; Connector attenuation(dB) = $0.03*\sqrt{F(GHz)}$

Power Handling(W) VS Frequency, @+40 °C, VSWR=1.0, Sea Level

Model	1GHz	2GHz	3GHz	6GHz	8GHz	10GHz	12.4GHz	18GHz	26.5GHz	40GHz
FS047SR	147	103	-	58	50	-	39	32	26	20
FS086SR	256	179	-	100	85	-	67	55	44	34
FS086SR-X	259	182	-	104	90	-	72	59	48	39
FS141SR	1121	772	-	419	355	311	274	219	172	-
FS141SR-X	1121	781	-	435	372	329	292	236	189	-
FS250SR	1455	959	745	474	390	334	287	219	-	-
FS250SR-X	1455	1014	819	566	484	428	380	308	-	-

Connectors Options1 and VSWR

	FS047SR	FS086SR	FS086SR-X	FS141SR	FS141SR-X	FS250SR	FS250SR-X	Freq.(Max)	VSWR (Max)
1.85mm(V)	√	√	√					67GHz	1.30:1
SSMP(M)	√	√	√					67GHz	1.30:1
2.4mm(2)	√	√	√					40GHz	1.30:1
2.92mm(K)	√	√	√	√	√			40GHz	1.30:1
SSMA(J)	√	√	√					40GHz	1.30:1
SMP(P)	√	√	√					40GHz	1.30:1
3.5mm(3)	√	√	√					33GHz	1.25:1
SMA(S)	√	√	√	√	√	√	√	26.5GHz	1.25:1
N(N)				√	√	√	√	18GHz	1.25:1
MCX(C)	√	√	√					6GHz	1.25:1

Note: Connector material, gender and other connector options may be available upon request. Please contact Faswave to confirm availability and current stock. The connectors listed above represent standard options and may not include the full range of Faswave connector offerings.

Series TR: High Precision Test Cables & Assemblies

Fasnwave's TR series test cables feature an integrated armored structure with multi-layer protection. Frequency is up to 110 GHz and length is customizable.

Key features:

- Stable phase&litude performance
- Integrated armored design
- Low VSWR and low IL

Applications:

- VNA testing
- microwave labs
- production line testing
- automated test systems



Cable Construction:



No	Description	Outer Diameter (mm)					Material
		FS18TR	FS26TR	FS50TR	FS67TR	FS110TR	
1	Inner Conductor	2.39	1.44	0.72	0.5	0.31	Silver plated Copper
2	Dielectric	6.16	3.85	2.10	1.38	0.88	Low Density PTFE
3	Inner Shield	6.40	4.05	2.25	1.54	1.00	Silver Plated Copper Strip
4	Interlayer	6.70	4.30	2.55	1.82	1.20	Low Density PTFE
5	Outer Shield	7.25	4.65	3.01	2.17	1.45	Silver Plated Copper Braid
6	Jacket	7.80	5.10	3.60	2.45	1.85	FEP
7	Armor* 7-8	9.45	6.70	5.10	3.60	2.70	Silver plated Copper
8	Armor* 9-10	10.40	7.60	6.10	4.80	3.90	PTFE

Electronic and Mechanical Specifications:

Description	FS18TR	FS26TR	FS50TR	FS67TR	FS110TR
Operating Freq.(GHz)	18	26.5	50	67	110
Cut-off Freq.(GHz)	18	29	50	82	128
Impedance	50Ω				
VSWR	≤1.2@18 GHz	≤1.25@26.5 GHz	≤1.25@50 GHz	≤1.3@67GHz	≤1.5@110GHz
Phase Stability	±3°	±5°	±7°	±7°	±10°
Amplitude Stability	±0.10dB	±0.05dB	±0.05dB	±0.05dB	±0.1dB
Velocity of Propagation	84%	82%	76%	81%	77%
Shielding Effectiveness	>90dB				
Dielectric Withstanding Voltage(VDC)	2500	1500	1200	800	600
Static Bending Radius (mm) without armor	39	25.5	18	13	10
Static Bending Radius (mm) with armor	52	38	30	24	20
Dynamic Bending Radius(mm) without armor	78	51	36	25	20
Dynamic Bending Radius(mm) with armor	104	76	60	48	40
Weight (g/m) without armor	123	55	31	16	8
Weight (g/m) with armor	220	135	95	52	33
Temperature	-55~+125°C				

Typical Cable Attenuation(dB/100m) VS Frequency, @+25 °C, VSWR=1.0

Model	1 GHz	2 GHz	3 GHz	6 GHz	8 GHz	10 GHz	12.4 GHz	18 GHz	26.5 GHz	40 GHz	50 GHz	67 GHz	75 GHz	110 GHz	K Factors
FS18TR	16.7	23.8	29.3	42.1	48.9	55.0	61.7	75.3	-	-	-	-	-	-	K1: 0.518300 K2: 0.000320
FS26TR	27.1	38.9	48.1	69.6	81.3	91.9	103.5	127.4	158.8	-	-	-	-	-	K1: 0.828800 K2: 0.000900
FS50TR	48.1	68.3	83.9	119.4	138.4	155.2	173.4	210.2	257.1	319.2	359.2	-	-	-	K1: 1.507808 K2: 0.000440
FS67TR	63.7	90.8	111.9	160.4	186.5	209.8	235.2	287.1	354.0	444.0	502.9	593.2	-	-	K1: 1.975832 K2: 0.001221
FS110TR	113.7	161.6	198.5	282.9	328.0	368.0	411.3	499.3	611.5	760.4	856.6	1002.7	1065.9	1314.3	K1: 3.557846 K2: 0.001221

Notes:

Typical attenuation values for Fasnwave cables at various frequencies are listed in the tables above. These values are calculable based on cable construction parameters. Cable attenuation is derived from factors related to the center conductor characteristics and the dielectric properties of each cable type. The total insertion loss (IL_{total}) is the sum of cable attenuation and the loss of both connectors.

Total IL Calculation: $IL_{total} = Atten_{cable} + IL_{conn1} + IL_{conn2}$

Cable attenuation(dB/100m)= $K1*\sqrt{F(MHz)} + K2*F(MHz)$; Connector attenuation(dB) = $0.03*\sqrt{F(GHz)}$

Power Handling(W) VS Frequency, @+40 °C, VSWR=1.0, Sea Level

Model	1 GHz	2 GHz	3 GHz	6 GHz	8 GHz	10 GHz	12.4 GHz	18 GHz	26.5 GHz	40 GHz	50 GHz	67 GHz	75 GHz	110 GHz
FS18TR	1602	1124	912	636	547	486	434	356	-	-	-	-	-	-
FS26TR	821	573	463	320	274	242	215	175	140	-	-	-	-	-
FS50TR	506	356	290	204	176	157	140	116	95	76	68	-	-	-
FS67TR	110	77	63	44	38	33	30	24	20	16	-	12	-	-
FS110TR	39	27	22	16	14	-	-	9	7	6	-	4	4	3

Connectors Options and VSWR

Connectors	FS18TR	FS26TR	FS50TR	FS67TR	FS110TR	Freq.(Max)	VSWR (Max)
1.0mm(W)					√	110GHz	1.30:1
1.85mm(V)				√	√	67GHz	1.30:1
SSMP(M)				√	√	67GHz	1.30:1
2.4mm(2)			√	√	√	40GHz	1.30:1
2.92mm(K)		√	√	√	√	40GHz	1.30:1
SSMA(J)			√	√	√	40GHz	1.30:1
SMP(P)				√	√	40GHz	1.30:1
3.5mm(3)		√	√	√	√	33GHz	1.25:1
SMA(S)	√	√	√	√	√	26.5GHz	1.25:1
N(N)	√	√	√	√		18GHz	1.25:1
TNC(T)	√	√				18GHz	1.25:1
MCX(C)				√	√	6GHz	1.25:1
MMCX(X)				√	√	6GHz	1.25:1
BNC(B)		√				4GHz	1.25:1

Series VN: VNA Test Cables & Assemblies

VN Series VNA cables & assemblies are designed for high-precision VNA test. They support frequencies up to 110 GHz and offer customizable lengths.

Key features:

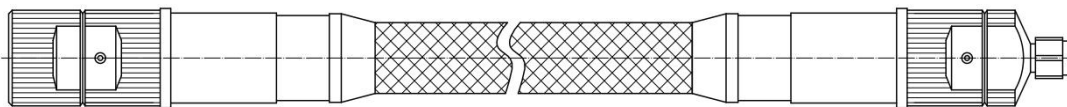
- Reinforced NMD connectors
- Optimized mechanical structure
- Low VSWR & IL
- Phase and amplitude stability

Applications:

- Laboratories
- Production lines
- And microwave test systems



Cable Construction:



Electronic and Mechanical Specifications:

Description	FSVN18		FSVN26		FSVN40		FSVN50		FSVN67		FSVN110	
Electrical Specifications												
Operating Freq.(GHz)	18		26.5		40		50		67		110	
Impedance	50											
VSWR(Max.)	1.25:1		1.25:1		1.30:1		1.30:1		1.30:1		1.40:1	
Velocity of Propagation(RMS)	76%				83%		76%					
Shielding Effectiveness	≥90dB											
Dielectric Withstanding Voltage	2KV(RMS)		1KV(RMS)		1KV(RMS)		1KV(RMS)		500V(RMS)		300V(RMS)	
Phase Change VS Bending(Max.)	±2.4° @18GHz		±2.7° @26.5GHz		±4° @40GHz		±7° @50GHz		±6.7° @67GHz		±9.0° @110GHz	
Amp. Change VS Bending(Max. dB)	±0.03 @18GHz		±0.03 @26.5GHz		±0.04 @40GHz		±0.05 @50GHz		±0.08 @67GHz		±0.15 @110GHz	
Mechanical Specifications												
Outer Braid	Polyester-PET											
Outer Diameter(mm)	15.2										8.0	
Dynamic Bending Radius(mm)	150										75	
Connector(Standard or NMD Optional)	N		3.5mm		2.92mm		2.4mm		1.85mm		1.0mm	
Standard Lengths(M)	0.61	0.91	0.61	0.91	0.61	0.91	0.61	0.91	0.61	0.91	0.61	0.91
Standard Lengths VS IL.(dB typ.)	1.2	1.6	1.7	2.4	2.0	2.8	2.8	3.8	4.6	6.5	9.2	13.2
Environmental Specifications												
Temperature	-55°C~+105 °C											

Series Z: Low Loss and Ultra-Flexible Cables & Assemblies

Fasnwave's Z Series is our ultra-flexible RF cable line, supporting frequencies up to 40 GHz with fully customizable lengths.

Key features:

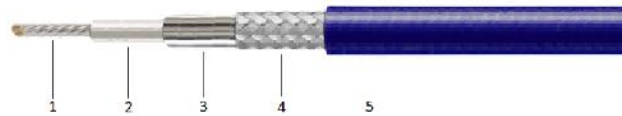
- Stranded inner conductor
- Ultra-flexible cable
- Resistant to harsh outdoor environments

Applications:

- Test and Measurement
- Phase Array Radar
- Mobile Device



Cable Construction:



No	Description	Outer Diameter (mm)				Material
		FS360Z	FS500Z	FS600Z	FS800Z	
1	Inner Conductor	0.72	1.02	1.44	1.88	Silver plated Copper
2	Dielectric	2.05	3.00	4.15	5.50	Low Density PTFE
3	Inner Shield	2.22	3.20	4.35	5.74	SPC Strip
4	Outer Shield	2.66	3.78	4.80	6.31	SPC Braid
5	Jacket	3.60	5.00	6.00	8.00	PUA

Electronic and Mechanical Specifications:

Description	FS360Z	FS500Z	FS600Z	FS800Z
Operating Freq.(GHz)	40	26.5	26.5	18
Cut-off Freq. (GHz)	51	35	29.5	20
Impedance	50Ω			
Velocity of Propagation	76%			
Shielding Effectiveness	>90dB			
Dielectric Withstanding Voltage(VDC)	500	1600	1700	2000
Static Bending Radius (mm)	18	25	30	40
Dynamic Bending Radius (mm)	36	50	60	80
Weight (g/m)	27	51	72	116
Temperature	-55~+85°C			

Typical Cable Attenuation(dB/100m) VS Frequency, @+25 °C, VSWR=1.0

Model	0.3 GHz	0.5 GHz	1 GHz	2 GHz	3 GHz	4 GHz	6 GHz	8 GHz	10 GHz	12.4 GHz	18 GHz	26.5 GHz	40 GHz	K Factors
FS360Z	-	-	51.9	74.4	92.1	-	133.4	156.0	176.4	198.7	244.9	305.5	388.8	K1: 1.582929 K2: 0.001806
FS500Z	-	26.7	38.5	55.9	69.8	-	103.2	121.9	139.0	157.9	198.0	252.1	-	K1: 1.136600 K2: 0.002530
FS600Z	-	-	28.7	41.2	50.9	59.3	73.6	86	97.1	109.2	134.3	167.2	-	K1: 0.880600 K2: 0.000900
FS800Z	9.5	12.5	18.2	26.7	33.8	-	50.9	60.7	69.8	80	101.9	-	-	K1: 0.517315 K2: 0.001806

Notes:

Typical attenuation values for Fasnwave cables at various frequencies are listed in the tables above. These values are calculable based on cable construction parameters. Cable attenuation is derived from factors related to the center conductor characteristics and the dielectric properties of each cable type. The total insertion loss (IL_{total}) is the sum of cable attenuation and the loss of both connectors.

Total IL Calculation: $IL_{total} = Atten_{cable} + IL_{conn1} + IL_{conn2}$

Cable attenuation(dB/100m)= $K1*\sqrt{F(MHz)} + K2*F(MHz)$; Connector attenuation(dB) = $0.03*\sqrt{F(GHz)}$

Power Handling(W) VS Frequency, @+40 °C, VSWR=1.0, Sea Level

Model	0.3 GHz	0.5 GHz	1 GHz	2 GHz	3 GHz	4 GHz	6 GHz	8 GHz	10 GHz	12.4 GHz	18 GHz	26.5 GHz	40 GHz
FS360Z	-	-	119	83	67	-	46	40	35	31	25	20	16
FS500Z	-	215	149	103	82	-	56	47	41	36	29	23	-
FS600Z	-	-	175	122	99	85	68	59	52	46	37	30	-
FS800Z	626	477	327	222	176	-	117	98	85	74	58	-	-

Connectors Options and VSWR

	FS360Z	FS500Z	FS600Z	FS800Z	Freq.(Max)	VSWR (Max)
1.85mm(V)	√				67GHz	1.30:1
2.4mm(2)	√				40GHz	1.30:1
2.92mm(K)	√	√			40GHz	1.30:1
SSMA(J)	√				40GHz	1.30:1
3.5mm(3)	√	√			33GHz	1.25:1
SMA(S)	√	√	√	√	26.5GHz	1.25:1
N(N)	√	√	√	√	18GHz	1.25:1

Note 1: Connector material, gender and other connector options may be available upon request. Please contact Fasnwave to confirm availability and current stock. The connectors listed above represent standard options and may not include the full range of Fasnwave connector offerings.

Attenuators

An RF attenuator is a critical component used to reduce the power level of a signal without significantly distorting its waveform. It acts as a "precision volume control" for microwave signals, essential for protecting sensitive equipment, matching impedance, and controlling signal levels in complex RF chains.

FASNWAVE INC. is a leading manufacturer of high-performance RF and microwave components. We provide a One-Stop Solution for all attenuation needs, offering a product line that rivals international Tier-1 brands in precision and reliability.

Key features:

- Complete Product Portfolio
- Ultra-Wide Frequency
- High Power Handling
- Fully Customizable

Applications:

- 5G/6G Communication Testing
- Radar & Electronic Warfare Systems
- Satcom(Ground Stations)
- Laboratory Precision Measurement



Product Range Overview

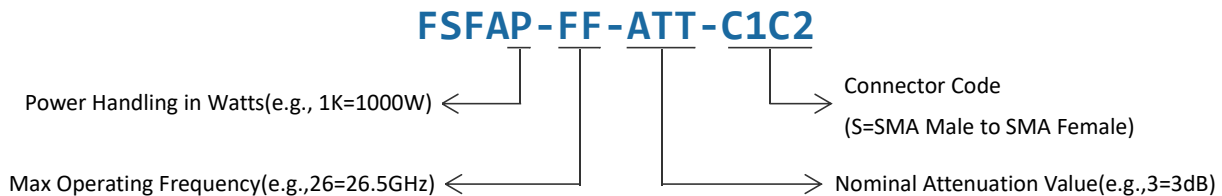
Category	Max Frequency	Key Feature
Fixed Attenuators	Up to 110GHz	High stability, wide power range (up to 500W)
Rotary Stepped Attenuators	Up to 40GHz	Precision manual increments
Continuously Variable Attenuators	Up to 18GHz	Seamless, gapless tuning
Programmable Attenuators	Up to 40GHz	High-speed automated switching
Digitally Controlled Attenuators	Up to 40GHz	Precise logic-level control



Fixed Attenuators

FASNWAVE provides a comprehensive line of 50 Ω fixed attenuators ranging from DC to 110GHz, with power handling up to 500W at 18GHz. Built to international standards, our products deliver high attenuation accuracy and low VSWR for critical 5G/6G, radar, and lab testing. We offer fully customizable attenuation values and connectors with no MOQ, providing a flexible, one-stop solution for any precision signal control requirement.

Model Number System:



For Example: FSFA100-18-20-N represent fixed attenuator, 18GHz, 20dB attenuation, N male to N female.

110GHz Series

Model Number	Freq. (GHz)	Power (W)	VSWR (Max.)	Attenuation(dB) & Accuracy (dB)			Connector	Dimension (mm)
				3	6	10		
FSFA1-110-XX-W	110	1	1.60	-1.0/+2.0	-1.0/+2.0	-1.0/+2.0	1.0mm	L=15.4

67GHz Series

Model Number	Freq. (GHz)	Power (W)	VSWR (Max.)	Attenuation(dB) & Accuracy (dB)				Connector	Dimension (mm)
				1~9	10	20	30		
FSFA2-67-XX-V	67	2	1.35	-1.0/+1.5	-1.2/+1.5	-1.5/+2.0	1.85mm	Φ9*18.5	
FSFA5-67-XX-V	67	5	1.40	-1.0/+1.2	±1.2	±1.5	1.85mm	Φ31.8*17.8	
FSFA10-67-XX-V	67	10	1.45	-	-1.0/+1.2	±1.2	±1.5	1.85mm	Φ40*25.2

50GHz Series

Model Number	Freq. (GHz)	Power (W)	VSWR (Max.)	Attenuation(dB) & Accuracy (dB)			Connector	Dimension (mm)
				1~10	20	30		
FSFA2-50-XX-2	50	2	1.30	±1.0	-1.0/+1.2	-1.0/+1.2	2.4mm	Φ9*19.7
FSFA5-50-XX-2	50	5	1.30	-1.0/+1.2	-1.0/+1.2	-1.0/+1.2	2.4mm	Φ31.8*17.8
FSFA10-50-XX-2	50	10	1.40	-1.5/+2.0	-1.5/+2.0	-1.5/+2.0	2.4mm	Φ40*25.2

40GHz Series

Model Number	Freq. (GHz)	Power (W)	VSWR (Max.)	Attenuation(dB) & Accuracy (dB)					Connector	Dimension (mm)
				1~10	20	30	40	50		
FSFA2-40-XX-K	40	2	1.25	-0.7/+0.8	-0.8/+1.0	-	-	2.92mm	Φ9*23.2	
FSFA5-40-XX-K	40	5	1.25	0.7/+1.0		-	-	2.92mm	Φ15.8*39.6	
FSFA10-40-XX-K	40	10	1.25	0.7/+1.0		-	-	2.92mm	Φ30.8*39.6	
FSFA20-40-XX-K	40	20	1.30	±1.5(3~10)	±1.5	±1.5	±1.5	2.92mm	Φ44*55.6	
FSFA30-40-XX-K	40	30	1.35	-	-1.5/+2.0		-	2.92mm	-	
FSFA50-40-XX-K	40	50	1.35	-	±3.0	±3.0	±3.0	2.92mm	Φ54*110.6	
FSFA100-40-XX-K	40	100	1.40	-	±4.0	±4.0	±4.0	±4.0	2.92mm	180*90*160

26.5GHz Series

Model Number	Freq. (GHz)	Power (W)	VSWR (Max.)	Attenuation(dB) & Accuracy (dB)				Connector	Dimension (mm)
				1~10	20	30	40		
FSFA2-26.5-XX-S	26.5	2	1.30	±0.7	±0.7	±0.8	±0.9	SMA	Φ9*27/30
FSFA5-26.5-XX-S	26.5	5	1.25	-0.6/+0.8	-0.6/+0.8	-0.8/+1.0	-	SMA	Φ15.8*38.7
FSFA20-26.5-XX-S	26.5	10	1.25	-0.6/+0.8	-0.6/+0.8	-0.8/+1.0	-	SMA	Φ31.8*38.7
FSFA20-26.5-XX-S	26.5	20	1.30	±1.5(10)	±1.5	±1.5	-	SMA	Φ44*54.7
FSFA30-26.5-XX-S	26.5	30	1.30	-	±1.5	±1.5	±1.5	SMA	Φ54*62.7
FSFA50-26.5-XX-S	26.5	50	1.30	-	±2.0	±2.0	±2.0	SMA	Φ54*109.7

18GHz, SMA Series

Model Number	Freq. (GHz)	Power (W)	VSWR (Max.)	Attenuation(dB) & Accuracy (dB)					Dimension (mm)
				1~10	11~20	21~30	31~40	41~60	
FSFA2-18-XX-S	18	2	1.30	±0.5	±0.7	±1.0	±1.5	±1.5	Φ9*24~30
FSFA5-18-XX-S	18	5	1.30	±0.6	±0.8	±1.0	-	-	Φ19*27
FSFA10-18-XX-S	18	10	1.35	±0.6	±0.8	±1.0	±1.2	-	Φ15.8*47.5
FSFA20-18-XX-S	18	20	1.35	±0.6	±0.8	±1.0	±1.2	-	Φ38*47.5
FSFA30-18-XX-S	18	30	1.35	±0.6	±0.8	±1.0	±1.2	±1.3(50~60)	Φ38*110 ¹
FSFA50-18-XX-S	18	50	1.45	±0.8	±0.9(20)	±1.1(30)	±1.2~1.3(40~50)		Φ64*110
FSFA100-18-XX-S	18	100	1.45	±1.5(6-10)	±1.5(20)	±1.3(30)	±1.3(40)	±1.4(50~70)	Φ64*161

1. Smaller dimensions are available.

18GHz, N-Type Series

Model Number	Freq. (GHz)	Power (W)	VSWR (Max.)	Attenuation(dB) & Accuracy (dB)					Dimension (mm)	
				1~10	11~20	21~30	31~40	41~60		
FSFA2-18-XX-N	18	2	1.35	±0.7	±0.8(20)	±1.0(30)	±1.2(40)	±1.3(50,60)	Φ16.5*45	
FSFA5-18-XX-N	18	5	1.35	±0.7	±0.8(20)	±1.0(30)	±1.2(40)	±1.3(50,60)	Φ16.5*58	
FSFA10-18-XX-N	18	10	1.45	±0.6	±0.8	±1.0	±1.2	±1.3~1.5	Φ30*58	
FSFA20-18-XX-N	18	20	1.45	±0.6	±0.8	±1.0	±1.2	±1.3(41~50)	Φ38*84.5	
FSFA30-18-XX-N	18	30	1.45	±0.6	±0.9(20)	±1.0(30)	±1.2(40)	±1.3(50~60)	Φ38*105	
FSFA50-18-XX-N	18	50	1.45	±0.8	±0.9(20)	±1.0(30)	±1.2~1.3(40~50)		Φ64*105 ¹	
FSFA100-18-XX-N	18	100	1.45	±1.5(6-10)	±1.5(20)	±1.3(30)	±1.3(40)	±1.4(50~60)	Φ64*161	
FSFA200-18-XX-N	18	200	1.45	±3.5(10)	±2.5(20)	±1.5(30)	±1.3(40)	±1.4(50~60)	258*110*120	
FSFA250-18-XX-N	18	250	1.45	±3.0(10)	-	±1.5(30)	±1.3(40)	±1.4(50~60)	309*110*120	
FSFA300-18-XX-N	18	300	1.45	±4.0(10)	±3.0(20)	±1.5(30)	±1.3(40,50)		±1.4(60)	360*110*120
FSFA400-18-XX-N	18	400	1.45	-	±3.0(20)	±1.5(30)	±1.3(40)	±1.4(50~60)		462*110*120
FSFA500-18-XX-N ²	18	500	1.45	±3.0(10)	±3.0(20)	±1.5(30)	±1.5(40)	±1.5(50, 60)		435*130*220

1. Block heatsink option is available.

2. The listed parameters are measured with a cooling fan. A fanless option is also available.

12.4GHz, SMA Series

Model Number	Freq. (GHz)	Power (W)	VSWR (Max.)	Attenuation(dB) & Accuracy (dB)					Dimension (mm)
				1~10	11~20	21~30	31~40	41~60	
FSFA2-12.4-XX-S	12.4	2	1.25	±0.5	±0.7	±0.9	±1.0	±1.0	Φ9*24~30
FSFA5-12.4-XX-S	12.4	5	1.25	±0.6	±0.8	±0.9	-	-	Φ19*27
FSFA10-12.4-XX-S	12.4	10	1.25	±0.6	±0.7	±0.8	±0.9	-	Φ15.8*47.5

FSFA20-12.4-XX-S	12.4	20	1.25	±0.6	±0.7	±0.8	±0.9	-	Φ38*47.5
FSFA30-12.4-XX-S	12.4	30	1.35	±0.6	±0.7	±0.8	±1.0	±1.0(50~60)	Φ38*110 ¹
FSFA50-12.4-XX-S	12.4	50	1.35	±0.6	±0.7(20)	±0.8(30)	±1.0~1.1(40~50)		Φ64*110
FSFA100-12.4-XX-S	12.4	100	1.35	±1.2(6-10)	±0.9(20)	±1.0(30)	±1.0(40)	±1.1(50~70)	Φ64*161

12.4GHz, N-Type Series

Model Number	Freq. (GHz)	Power (W)	VSWR (Max.)	Attenuation(dB) & Accuracy (dB)					Dimension (mm)
				1~10	11~20	21~30	31~40	41~60	
FSFA2-12.4-XX-N	12.4	2	1.30	±0.6	±0.7(20)	±0.8(30)	±0.9(40)	±1.1(50,60)	Φ16.5*45
FSFA5-12.4-XX-N	12.4	5	1.30	±0.6	±0.7(20)	±0.8(30)	±0.9(40)	±1.0(50,60)	Φ16.5*58
FSFA10-12.4-XX-N	12.4	10	1.35	±0.6	±0.7	±0.8	±0.9	±1.0~1.2	Φ30*58
FSFA20-12.4-XX-N	12.4	20	1.35	±0.6	±0.7	±0.8	±0.9	±1.1(41~50)	Φ38*84.5
FSFA30-12.4-XX-N	12.4	30	1.35	±0.6	±0.7(20)	±0.8(30)	±1.0(40)	±1.0(50~60)	Φ38*105
FSFA50-12.4-XX-N	12.4	50	1.35	±0.6	±0.7(20)	±0.8(30)	±1.0(40~50)		Φ64*105 ¹
FSFA100-12.4-XX-N	12.4	100	1.35	±1.2(6-10)	±0.9(20)	±1.0(30)	±1.0(40)	±1.1(50~60)	Φ64*161
FSFA200-12.4-XX-N	12.4	200	1.35	±1.5(10)	±0.9(20)	±1.0(30)	±1.1(40)	±1.1(50~60)	258*110*120
FSFA250-12.4-XX-N	12.4	250	1.35	±2.5(10)	±0.9(20)	±1.0(30)	±1.1(40)	±1.1(50~60)	309*110*120
FSFA300-12.4-XX-N	12.4	300	1.35	±3.0(10)	±0.9(20)	±1.0(30)	±1.1(40,50)	±1.1(60)	360*110*120
FSFA400-12.4-XX-N	12.4	400	1.35	-	±0.9(20)	±1.0(30)	±1.1(40)	±1.1(50~60)	462*110*120
FSFA500-12.4-XX-N ²	12.4	500	1.35	±2.5(10)	±0.9(20)	±1.0(30)	±1.1(40)	±1.1(50, 60)	435*130*220

1. Block heatsink option is available.
2. The listed parameters are measured with a cooling fan. A fanless option is also available.

8GHz, SMA Series

Model Number	Freq. (GHz)	Power (W)	VSWR (Max.)	Attenuation(dB) & Accuracy (dB)					Dimension (mm)
				1~10	11~20	21~30	31~40	41~60	
FSFA2-8-XX-S	8	2	1.20	±0.5	±0.6	±0.8	±0.8	±0.9	Φ9*24~30
FSFA5-8-XX-S	8	5	1.25	±0.5	±0.6	±0.8	-	-	Φ19*27
FSFA10-8-XX-S	8	10	1.20	±0.5	±0.6	±0.8	±0.8	-	Φ15.8*47.5
FSFA20-8-XX-S	8	20	1.20	±0.5	±0.6	±0.8	±0.8	-	Φ38*47.5
FSFA30-8-XX-S	8	30	1.25	±0.5	±0.6	±0.8	±0.8	±0.8(50~60)	Φ38*110 ¹
FSFA50-8-XX-S	8	50	1.25	±0.5	±0.6(20)	±0.8(30)	±0.8(40~50)		Φ64*110
FSFA100-8-XX-S	8	100	1.25	±0.8(6-10)	±0.8(20)	±0.9(30)	±0.9(40)	±1.0(50~70)	Φ64*161
FSFA100-8-XX-S-1	8	100	1.30	±1.0(10)	±1.1(20)	±1.3(30)	-	-	Φ38*185

8GHz, N-Type Series

Model Number	Freq. (GHz)	Power (W)	VSWR (Max.)	Attenuation(dB) & Accuracy (dB)					Dimension (mm)
				1~10	11~20	21~30	31~40	41~60	
FSFA2-8-XX-N	8	2	1.25	±0.5	±0.6(20)	±0.8(30)	±0.8(40)	±0.9(50,60)	Φ16.5*45
FSFA5-8-XX-N	8	5	1.20	±0.5	±0.6(20)	±0.8(30)	±0.8(40)	±0.9(50,60)	Φ16.5*58
FSFA10-8-XX-N	8	10	1.25	±0.5	±0.6	±0.8	±0.8	±0.8~1.0	Φ30*58
FSFA20-8-XX-N	8	20	1.25	±0.5	±0.6	±0.8	±0.8	±0.8(41~50)	Φ38*84.5
FSFA30-8-XX-N	8	30	1.25	±0.5	±0.6(20)	±0.8(30)	±0.8(40)	±0.8(50~60)	Φ38*105
FSFA50-8-XX-N	8	50	1.25	±0.5	±0.6(20)	±0.8(30)	±0.8(40~50)		Φ64*105 ¹
FSFA100-8-XX-N	8	100	1.25	±0.8(6-10)	±0.8(20)	±0.9(30)	±0.9(40)	±1.0(50~60)	Φ64*161
FSFA100-8-XX-N-1	8	100	1.30	±1.0(10)	±1.1(20)	±1.3(30)	-	-	Φ38*185

FSFA200-8-XX-N	8	200	1.25	±1.5(10)	±0.8(20)	±0.9(30)	±0.9(40)	±0.9(50~60)	258*110*120
FSFA250-8-XX-N	8	250	1.25	±0.8(10)	±0.8(20)	±0.9(30)	±0.9(40)	±0.9(50~60)	309*110*120
FSFA300-8-XX-N	8	300	1.25	±0.8(10)	±0.8(20)	±0.9(30)	±0.9(40,50)	±0.9(60)	360*110*120
FSFA400-8-XX-N	8	400	1.25	-	±0.8(20)	±0.9(30)	±0.9(40)	±0.9(50~60)	462*110*120
FSFA500-8-XX-N ²	8	500	1.25	±0.8(10)	±0.8(20)	±0.9(30)	±0.9(40)	±0.9(50,60)	435*130*220

1. Block heatsink option is available.
2. The listed parameters are measured with a cooling fan. A fanless option is also available.

4GHz, SMA Series

Model Number	Freq. (GHz)	Power (W)	VSWR (Max.)	Attenuation(dB) & Accuracy (dB)					Dimension (mm)
				1~10	11~20	21~30	31~40	41~60	
FSFA2-4-XX-S	4	2	1.15	±0.5	±0.5	±0.7	±0.7	±0.8	Φ9*24~30
FSFA5-4-XX-S	4	5	1.20	±0.4	±0.5	±0.7	-	-	Φ19*27
FSFA10-4-XX-S	4	10	1.15	±0.4	±0.5	±0.6	±0.7	-	Φ15.4*47.5
FSFA20-4-XX-S	4	20	1.15	±0.4	±0.5	±0.6	±0.7	-	Φ34*47.5
FSFA30-4-XX-S	4	30	1.20	±0.4	±0.5	±0.7	±0.7	±0.7(50~60)	Φ34*110 ¹
FSFA50-4-XX-S	4	50	1.20	±0.4	±0.5(20)	±0.7(30)	±0.7(40~50)		Φ64*110
FSFA100-4-XX-S	4	100	1.20	±0.7(6-10)	±0.7(20)	±0.8(30)	±0.8(40)	±0.9~1.0(50~70)	Φ64*161

4GHz, N-Type Series

Model Number	Freq. (GHz)	Power (W)	VSWR (Max.)	Attenuation(dB) & Accuracy (dB)					Dimension (mm)
				1~10	11~20	21~30	31~40	41~60	
FSFA2-4-XX-N	4	2	1.15	±0.4	±0.5(20)	±0.6(30)	±0.7(40)	±0.8(50,60)	Φ16.5*45
FSFA5-4-XX-N	4	5	1.15	±0.4	±0.5(20)	±0.6(30)	±0.7(40)	±0.8(50,60)	Φ16.5*54
FSFA10-4-XX-N	4	10	1.20	±0.4	±0.5	±0.6	±0.7	±0.8~0.9	Φ30*54
FSFA20-4-XX-N	4	20	1.20	±0.4	±0.5	±0.6	±0.7	±0.7(41~50)	Φ34*44.5
FSFA30-4-XX-N	4	30	1.20	±0.4	±0.5(20)	±0.7(30)	±0.7(40)	±0.7(50~60)	Φ34*105
FSFA50-4-XX-N	4	50	1.20	±0.4	±0.5(20)	±0.7(30)	±0.7(40~50)		Φ64*105 ¹
FSFA100-4-XX-N	4	100	1.20	±0.7(6-10)	±0.7(20)	±0.8(30)	±0.8(40)	±1.0(50~60)	Φ64*161
FSFA200-4-XX-N	4	200	1.20	±0.7(10)	±0.7(20)	±0.8(30)	±0.9(40)	±0.9(50~60)	254*110*120
FSFA250-4-XX-N	4	250	1.20	±0.7(10)	±0.7(20)	±0.8(30)	±0.9(40)	±0.9(50~60)	309*110*120
FSFA300-4-XX-N	4	300	1.20	±0.7(10)	±0.7(20)	±0.8(30)	±0.9(40,50)	±0.9(60)	360*110*120
FSFA400-4-XX-N	4	400	1.20	-	±0.7(20)	±0.8(30)	±0.9(40)	±0.9(50~60)	462*110*120
FSFA500-4-XX-N ²	4	500	1.20	±0.7(10)	±0.7(20)	±0.8(30)	±0.9(40)	±0.9(50, 60)	435*130*220
FSFA1K-4-XX-N	4	400	1.20	-	±0.7(20)	±0.8(30)	±0.9(40)	±0.9(50~60)	462*110*120

1. Block heatsink option is available.
2. The listed parameters are measured with a cooling fan. A fanless option is also available.

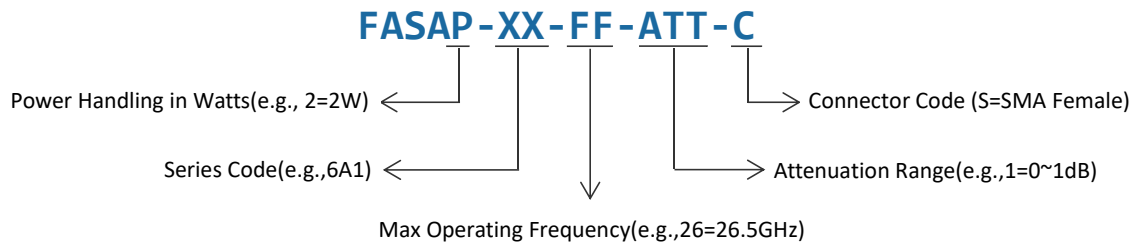
High Power Series

Model Number	Freq. (GHz)	Power (W)	VSWR (Max.)	Attenuation(dB) & Accuracy (dB)				Connector	Dimension (mm)
				30	40	50	60		
FSFA1K-6-XX-N	6	1000	1.45	±5.0	-1/+8	±4.0	±4.0	N	486*220*508
FSFA2K-3-XX-L29	3	2000	1.40	-	±2.0	±2.0	-	L29,N	658*170*410

Rotary Stepped Attenuators

Fasnwave offers 50 Ω rotary stepped attenuators designed for precise and reliable RF and microwave signal level control. Covering frequencies up to 40 GHz, the series is available in single-rotor, dual-rotor, and three-rotor configurations, offering attenuation ranges up to 101 dB with step sizes down to 0.1 dB. These attenuators deliver high attenuation accuracy, excellent repeatability, and long-term stability, making them ideal for RF/microwave test benches and panel-mounted installations.

Model Number System:



For Example: FSSA2-6-1-N represent rotary stepped attenuator, DC~6GHz, 0~1dB Attenuation, N female.

FSSAXX-6A1

Freq. (GHz)	Attenuation/Step	Accuracy(dB)	VSWR (Max.)	IL (dB.Max.)	Power(W)	Connector
DC~2.5	0~1dB in 0.1dB Steps	±0.2	1.25	0.4	2,10	SMA, N
DC~3			1.30	0.5	2,10	SMA, N
DC~4.3		1.35	0.75	2,10	SMA, N	
DC~6		1.40	1.0	2,10	SMA, N	
DC~2.5	0~10dB in 1dB Steps	±0.4	1.25	0.4	2,10	SMA, N
DC~3			1.30	0.5	2,10	SMA, N
DC~4.3		1.35	0.75	2,10	SMA, N	
DC~6		1.40	1.0	2,10	SMA, N	
DC~2.5	0~90dB in 10dB Steps	±0.5 (0~39dB)	1.25	0.4	2,10	SMA, N
DC~3		±0.8 or 3%/3.5% (40~90dB)	1.30	0.5	2,10	SMA, N
DC~4.3	0~60dB in 10dB Steps	±0.5 (0~39dB)	1.35	0.75	2,10	SMA, N
DC~6		±0.8 or 3% (40~90dB)	1.40	1.0	2,10	SMA, N
Peak Power		100W (5 μ s pulse width, 2% duty cycle)				
Working Temperature		-20°C~+85°C				

FSSAXX-6B2

Freq. (GHz)	Attenuation/Step	Accuracy(dB)	VSWR (Max.)		IL (dB.Max.)	Power(W)	Connector
			SMA	N			
DC~2.5	0~11dB in 0.1dB Steps	±0.2 (1dB), ±0.4 (2~10dB)	1.30	1.45	1.0	2,10	SMA, N
DC~3			1.35	1.45	1.2	2,10	SMA, N
DC~4.3		±0.3 (0~0.9dB)	1.40	1.55	1.5	2,10	SMA, N
DC~6		±0.5 (1~11dB)	1.55	1.60	1.8	2,10	SMA, N
DC~2.5	0~50dB in 1dB Steps	±0.5 (0~10dB) ±0.8 or 3% (11~50dB)	1.30	1.35	1.0	2,10	SMA, N
DC~2.5	0~70dB in	±0.5 (0~10dB)	1.30	1.45	1.0	2,10	SMA, N

DC~3	1dB Steps	± 0.8 or 3% (11~69dB) $\pm 3.5\%$ (70dB)	1.35	1.45	1.2	2,10	SMA, N
DC~4.3			1.40	1.55	1.5	2,10	SMA, N
DC~6			1.55	1.60	1.8	2,10	SMA, N
DC~2.5	0~100dB in 1dB Steps	± 0.5 (0~10dB) ± 0.8 or 3% (11~69dB) $\pm 3.5\%$ (70~100dB)	1.30	1.45	1.0	2,10	SMA, N
DC~3			1.35	1.45	1.2	2,10	SMA, N
Peak Power		00W (5 μ s pulse width, 2% duty cycle)					
Working Temperature		-20°C~+85°C					

FSSAXX-6C2

Freq. (GHz)	Attenuation/Step	Accuracy(dB)	VSWR (Max.)	IL (dB.Max.)	Power(W)	Connector	
DC~2.5	0~11dB in 0.1dB Steps	± 0.3 (0~0.9dB) ± 0.5 (1~11dB)	1.40	1.2	2,10	N	
DC~3			1.45	1.2	2,10	N	
DC~4.3			1.50	1.5	2,10	N	
DC~6			1.65	1.8	2,10	N	
DC~2.5	0~70dB in 1dB Steps	± 0.5 (0~10dB) ± 0.8 or 3% (11~69dB) $\pm 3.5\%$ (70dB)	1.40	1.2	2,10	N	
DC~3			1.45	1.2	2,10	N	
DC~4.3			1.50	1.5	2,10	N	
DC~6			1.65	1.8	2,10	N	
DC~2.5	0~100dB in 1dB Steps	± 0.5 (0~10dB) ± 0.8 or 3% (11~69dB) $\pm 3.5\%$ (70~100dB)	1.40	1.2	2,10	N	
DC~3			1.45	1.2	2,10	N	
Peak Power		100W (5 μ s pulse width, 2% duty cycle)					
Working Temperature		-20°C~+85°C					

FSSAXX-6D3

Freq. (GHz)	Attenuation/Step	Accuracy(dB)	VSWR (Max.)	IL (dB.Max.)	Power(W)	Connector	
DC~2.5	0~71dB in 0.1dB Steps	± 0.3 (0~0.9dB) ± 0.5 (1~10dB) ± 0.8 or 3% (10.1~69.9dB) $\pm 3.5\%$ (70~71dB)	1.50	1.5	2,10	N	
DC~3			1.60	1.7	2,10	N	
DC~4.3			1.70	2.0	2,10	N	
DC~6			1.75	2.5	2,10	N	
DC~0.03 ¹	0~101dB in 0.1dB Steps	± 0.09 dB(0~15dB) $\pm 0.5\%+0.02$ dB(15.1~101dB) ± 0.3 (0~0.9dB) ± 0.5 (1~10dB) ± 0.8 or 3% (10.1~69.9dB) $\pm 3.5\%$ (70~101dB)	1.1	0.8	2,10	N	
DC~2.5			1.50	1.5	2,10	N	
DC~3			1.60	1.7	2,10	N	
Peak Power		100W (5 μ s pulse width, 2% duty cycle)					
Working Temperature		-20°C~+85°C					

Note 1:

The DC~0.03 GHz version is a precision type, available with an average power rating of 2 W only.

Connector options include N, BNC, and SMA.

Due to mechanical wear during rotation, attenuation accuracy may gradually degrade. It is recommended that the unit be returned to the factory for maintenance, recalibration, and replacement of worn parts after approximately 60,000 knob rotations.

FSSAXX-26A1

Freq. (GHz)	Attenuation/Step	Accuracy(dB)	VSWR (Max.)	IL (dB.Max.)	Power(W)	Connector
DC~8	0~9dB in 1dB Steps	±0.6	1.40	0.8	2,10	SMA, 3.5mm
DC~12.4		±0.8	1.50	1.0		SMA, 3.5mm
DC~18		±1.0	1.60	1.2		SMA, 3.5mm
DC~26.5		±1.0	1.75	1.8		SMA, 3.5mm
DC~8	0~90dB in 10dB Steps	±1.5 (10~60dB) ±2.5 or 3.5% (70~90dB)	1.40	1.0	2,10	SMA, 3.5mm
DC~12.4			1.50	1.2	2,10	SMA, 3.5mm
DC~18			1.60	1.5		SMA, 3.5mm
DC~18	0~70dB in 10dB Steps	±1.5 or 4%	1.65	1.0	25	SMA, 3.5mm
DC~26.5	0~60dB in 10dB Steps		1.75 1.80	1.8	10,25	SMA, 3.5mm
Peak Power		200W (5µs pulse width, 2% duty cycle)				
Working Temperature		0°C~+54°C				

FSSAXX-26B2

Freq. (GHz)	Attenuation/Step	Accuracy(dB)	VSWR (Max.)	IL (dB.Max.)	Power(W)	Connector
DC~8	0~69dB in 1dB Steps	±0.5dB (0~9dB) ±1.0dB(10~19dB) ±1.5dB(20~49dB) ±2.0dB(50~69dB)	1.50	1.0	2,5	SMA
DC~12.4		±0.8dB (0~9dB)	1.60	1.25	2,5	SMA
DC~18		±1.0dB(10~19dB) ±1.5dB(20~49dB) ±2.0dB(50~69dB)	1.75	1.5	2,5	SMA
DC~26.5		±1.5dB (1~9dB) ±1.75dB(10~19dB) ±2.0dB(20~49dB) ±2.5dB(50~69dB)	2.0	2.0	2,5	3.5mm
DC~8	0~99dB in 1dB Steps	±0.5dB (0~9dB) ±1.0dB(10~19dB) ±1.5dB(20~49dB) ±2.0dB(50~69dB) ±2.5dB or 3.5%(70~99dB)	1.50	1.0	2,5	SMA
DC~12.4		±0.8dB (0~9dB)	1.60	1.25	2,5	SMA
DC~18		±1.0dB(10~19dB) ±1.5dB(20~49dB) ±2.0dB(50~69dB) ±2.5dB or 3.5%(70~99dB)	1.75	1.5	2,10	SMA
Peak Power		200W (5µs pulse width, 2% duty cycle)				
Working Temperature		0°C~+54°C				

FSSAXX-26C2

Freq. (GHz)	Attenuation/Step	Accuracy(dB)	VSWR (Max.)	IL (dB.Max.)	Power(W)	Connector
DC~8	0~69dB in 1dB Steps	±0.5dB(1~9dB DC~8G)	1.50	1.25	2,10	SMA, N
DC~12.4		±0.8dB(1~9dB >8G)	1.50	1.50	2,10	SMA, N
DC~18		±1.0dB(10~19dB)	1.75	1.50	2,10	SMA, N
		±1.5dB(20~49dB)				
	±2.0dB(50~69dB)					
DC~26.5		±1.5dB (0~9dB)	1.85	2.2	2,10	3.5mm
	±1.75dB(10~19dB)					
	±2.0dB(20~49dB)					
	±2.5dB(50~69dB)					
DC~8	0~99dB in 1dB Steps	±0.5dB (0~9dB,DC~8G)	1.50	1.25	2,10	SMA, N
DC~12.4		±0.8dB (0~9dB,DC>8G)	1.50(2W)	1.50	2,10	SMA, N
		±1.0dB(10~19dB)	1.60(10W)			
DC~18		±1.5dB(20~49dB)	1.75	1.50(2W)	2,10	SMA, N
	±2.0dB(50~69dB)	1.75(10W)				
		±2.5dB or 3.5%(70-99dB)				
Peak Power		200W (5μs pulse width, 2% duty cycle)				
Working Temperature		0°C~+54°C				

FSSAXX-26D3

Freq. (GHz)	Attenuation/Step	Accuracy(dB)	VSWR (Max.)	IL (dB.Max.)	Power(W)	Connector
DC~8	0~99.9dB in 0.1dB Steps	±0.5(0~0.9dB)	1.50	1.3	2, 5	SMA, N
DC~12.4		±0.8(1~9.9dB/0.1~8GHz)	1.65	1.6	2, 5	SMA, N
DC~18		±1.0(1~9.9dB/8~18GHz)	2.0	1.7	2, 5	SMA, N
		±1.5(10~19.9dB)				
	±2.0(20~49.9dB)					
		±2.5(50~69.9dB)				
		±3.0 or 3.5%(70~99.9dB)				
DC~12.4	0~109dB, 0~119dB, 0~129dB in 1dB Steps	±0.8dB(1~9dB)	1.7	1.6	2, 5	SMA, N
DC~18		±1.0dB(10~19dB)	2.0	1.8	2, 5	SMA, N
		±1.5dB(20~49dB)				
		±2.0dB(50~69dB)				
	±2.5dB or 3.5%(70~99dB)					
		±4%(>99dB)				
DC~26.5	0~99dB, 0~109dB	±1.5(0~9dB)	2.0	3.0	5	3.5mm
DC~28	in 1dB Steps	±2.5 or 5%(10~99dB)				
Peak Power		100W (5μs pulse width, 2% duty cycle)				
Working Temperature		-20°C~+85°C				

FSSAXX-40A1

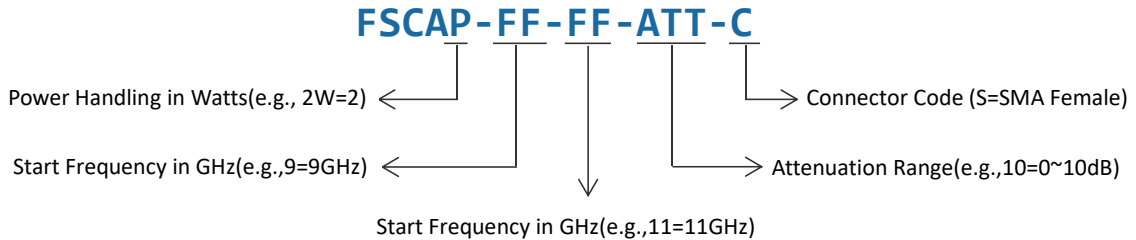
Freq. (GHz)	Attenuation/Step	Accuracy(dB)	VSWR (Max.)	IL (dB.Max.)	Power(W)	Connector
DC~28	0~9dB in 1dB Steps	±1.5	1.75	1.8	10	3.5mm
DC~32		±1.2	1.9	2.0	2	2.92mm
DC~40		±1.5	2.0	2.5	2	2.92mm
DC~26.5	0~60dB in 10dB Steps	±1.5 or 4%	1.75	1.8	2	3.5mm

DC~18	0~70dB in 10dB Steps	±1.5 or 4%	1.60	1.0	2,10	SMA
DC~26.5		±1.5 or 4%	1.75	1.8	25	3.5mm
DC~28		±2.0 or 5%	1.75	1.8		3.5mm
Peak Power		200W (5μs pulse width, 2% duty cycle)				
Working Temperature		0°C~+54°C				

Continuously Variable Attenuators

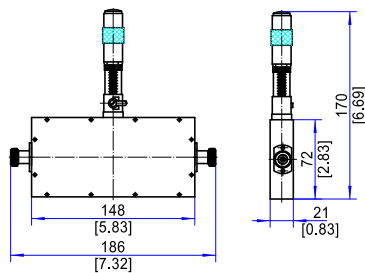
Fasnwave 50 Ω continuously variable attenuators provide broadband, high-power RF signal control up to 18 GHz, with power handling up to 300 W. Designed for smooth, continuous attenuation adjustment, the series offers multiple attenuation ranges, low VSWR, and excellent long-term stability, making it ideal for demanding RF and microwave test and system applications.

Model Number System:



For Example: FSCA1-0-2.5-10-N represent continuously variable attenuator, DC-2.5GHz, 0~10dB attenuation, N female

Model	Frequency (GHz)	Attenuation Range(dB)	Power (W)	VSWR (Max.)	IL. (dB.Max.)	Connector	Dimension (mm)		
FSCA1-0-2.5-10-X	DC~2.5	0~10	1	-	-	SMA,N	SMA: 41*20*38		
FSCA1-0-2.5-16-X		0~16	1	-	-	SMA,N	N: 47.5*20*42		
FSCA5-2-4-8-S-XX	2~4	0~8	5	≤1.50	≤0.5	SMA	Standard: 73.5*69.7*14.3 With Knob: 87.6*69.7*17.8 With Dial: 87.6*69.7*23.4		
FSCA5-4-8-10-S-XX	4~8	0~10	5			SMA			
FSCA5-4-8-20-S-XX		0~20	5			SMA			
FSCA5-7-10-10-S-XX	7~10	0~10	5			SMA			
FSCA5-7-10-20-S-XX		0~20	5			SMA			
FSCA5-7-10-30-S-XX		0~30	5			SMA			
FSCA5-7-10-40-S-XX		0~40	5			SMA			
FSCA5-8-12.4-10-S-XX	8~12.4	0~10	5			≤1.60		≤0.75	SMA
FSCA5-8-12.4-20-S-XX		0~20	5						SMA
FSCA5-8-12.4-30-S-XX		0~30	5						SMA
FSCA5-8-12.4-40-S-XX		0~40	5	SMA					
FSCA5-12.4-18-10-S-XX	12.4~18	0~10	5	≤0.75	≤0.75		SMA		
FSCA5-12.4-18-20-S-XX		0~20	5				SMA		
FSCA5-12.4-18-30-S-XX		0~30	5				SMA		
FSCA5-12.4-18-40-S-XX		0~40	5				SMA		



High Power Version

Model	Freq. (GHz)	Bandwidth (MHz)	Attenuation Range(dB)	Accuracy (dB)	Power (W)	Connector	Dimension (mm)	
FSCA50-X-X-10-N	0.9~4	100	0~10	±0.5	50	N	120*96.5*75	
FSCA50-X-X-10-N		200		±0.75				
FSCA50-X-X-10-N	4~5	100	0~10	±0.5		N		
FSCA50-X-X-10-N		200		±0.75				
FSCA50-X-10-N		Spot		N/A				
FSCA50-X-X-10-N	9~11	100	0~10	±0.5		N		
FSCA50-X-X-10-N		200		±0.75				
FSCA50-X-10-N		Spot		N/A				
FSCA100-X-X-10-N	0.9~4	100	0~10	±0.5	100	N	189*102* 75	
FSCA100-X-X-10-N		200		±0.75				
FSCA100-X-X-20-N		100	100	0~20				±0.5
FSCA100-X-X-20-N			200					±0.75
FSCA100-X-X-10-N	4~5	100	0~10	±0.5		N		
FSCA100-X-X-10-N		200		±0.75				
FSCA100-X-10-N		Spot		N/A				
FSCA100-X-X-15-N		100	100	0~15				±0.5
FSCA100-X-X-15-N			200					±0.75
FSCA100-X-20-N		Spot	0~20	N/A				
FSCA100-X-30-N	Spot	0~30	N/A					
FSCA100-X-X-10-N	9~11	100	0~10	±0.5		N		
FSCA100-X-X-10-N		200		±0.75				
FSCA100-X-10-N		Spot	N/A					
FSCA100-X-20-N		Spot	0~20	N/A				
FSCA100-X-30-N		Spot	0~30	N/A				
FSCA300-X-X-10-N	0.9~4	100	0~10	±0.5	300	N	259*102* 75	
FSCA300-X-X-10-N		200		±0.75				
FSCA300-X-X-20-N		100	100	0~20				±0.5
FSCA300-X-X-20-N			200					±0.75
FSCA300-X-X-10-N	4~5	100	0~10	±0.5		N		
FSCA300-X-X-10-N		200		±0.75				
FSCA300-X-20-N		100	100	0~20				±0.5
FSCA300-X-X-20-N			200					±0.75
FSCA300-X-20-N	Spot	N/A						
FSCA300-X-X-10-N	9~11	100	0~10	±0.5		N		
FSCA300-X-X-10-N		200		±0.75				
FSCA300-X-X-15-N		100	100	0~15				±0.5
FSCA300-X-X-15-N			200		±0.75			
FSCA300-X-15-N		Spot	N/A					
FSCA300-X-10-N	11-12.4	Spot	0~10	N/A	N			

Filters

We provide high-performance RF & Microwave Filters covering frequencies up to 40GHz, including Cavity Filters and Lumped Element (LC) Filters. Multiple filter topologies and custom configurations are available to meet the requirements of wireless communication, radar, satellite communication, electronic warfare, and test & measurement systems.

LC filters utilize lumped element design with inductors and capacitors, offering compact size, lightweight construction, easy integration, and stable electrical performance.

Cavity filters employ high-Q resonator coupling structures such as coaxial, combline, and interdigital designs, providing low insertion loss, high selectivity, excellent out-of-band rejection, and high power handling capability.

Our filters are widely used for signal selection, frequency combining/separating, harmonic suppression, and interference rejection in demanding RF and microwave applications.

Key features:

- Low Insertion Loss
- High Power Handling
- Stable Electrical Performance
- Custom Design Available
- Multiple Structure Options

Applications:

- 5G/6G Wireless Communication
- Radar & Electronic Warfare Systems
- Satcom(Ground Stations)
- Signal Combining & Distribution
- Frequency Converter Systems

Available Types:

- Bandpass Filters
- Low Pass Filters
- High Pass Filters
- Band Reject Filters
- Diplexers & Multiplexers



Band Pass Filters

Model	Passband (MHz)	IL. (dB.Max)	VSWR (max)	Rejection (dB.min)	Power (W)	Connector	Dimension (mm)
FSBP1-300-6500-S	300~6500	2.5	1.80	40@DC~200MHz 40@7300MHz	1	SMA	40.4*12*10
FSBP100-450-470-S	450~470	0.7	1.3	50@DC~430MHz 50@490~2300MHz	100	SMA	120*82*61
FSBP100-620-670-S	620~670	1.2	1.3	30@570-605MHz 30@685-720MHz	100	SMA	155*80*48
FSBP1-664-678-S	664~678	3	1.3	25@630~657MHz 60@750~3000Hz	1	SMA	71*41*46
FSBP10-753-783-S	753~783	2.4	1.5	60@DC-748MHz 60@800-1000MHz	10	SMA	125*95*46
FSBP10-834-839-S	834~839	2.0	1.22	60@DC~824MHz 60@849~3000MHz	10	SMA	88*60*46
FSBP10-860-875-S	860~875	2.8	1.5	60@DC-849MHz 60@880-1000MHz	10	SMA	155*65*46
FSBP30-900-930-S	900~930	0.6	1.3	40@DC~855MHz 40@975~2000MHz	30	SMA	70*70*28
FSBP200-980-1020-S	980~1020	1.0	1.3	60@DC~930MHz 60@1070~1950MHz	200	SMA	169*55*30
FSBP2500-990-1130-N	990~1130	1.7	1.45	50@920~960MHz 50@1160~1200MHz	2500	N	149*50*18
FSBP10-1000-1800-S	1000~1800	0.5	1.6	30@100~800MHz 30@2200~3000MHz	10	SMA	74.5*52*16
FSBP200-1100-1300-N	1100~1300	1	1.3	60@DC~960MHz 60@1400~2700MHz	200	N	115*60*40
FSBP10-1200-1300-S	1200~1300	1	1.5	80@DC-1150MHz 80@1350-2500MHz	10	SMA	67*67*27
FSBP10-1200-1600-S	1200~1600	1	1.5	80@DC~1000MHz 80@1800~2200MHz	10	SMA	102*56*14
FS2BP10-1217-1585-S	1217.6~1237.6 1565.4~1585.5	1.2	1.3	20@1610~2000MHz	10	SMA	92*50*25
FSBP100-1300-1335-S	1300~1335	1.5	1.3	30@1250-1285MHz 30@1350-1380MHz	100	SMA	155*80*26
FSBP100-1320-1400-N	1320~1400	1.4	1.3	30@1270~1305MHz 30@1415-1450MHz	100	N	90*90*31
FSBP10-1390-1510-S	1390~1510	1	1.5	80@DC-1340MHz 80@1560-2500MHz	10	SMA	67*67*22
FSBP100-1450-1500-S	1450~1500	1.5	1.3	30@1400-1435MHz 30@1515-1550MHz	100	SMA	155*80*26
FSBP20-1456-1472-S	1456~1472	3.1	1.3	37@1444~1449MHz 37@1479~1484MHz	20	SMA	90*40*25
FSBP10-1500-2000-S	1500~2000	4	1.5	30@DC~1300MHz	10	SMA	30*12*10

Model	Passband (MHz)	IL. (dB.Max)	VSWR (max)	Rejection (dB.min)	Power (W)	Connector	Dimension (mm)
				30@2100~3000MHz			
FSBP20-1522-1542-S	1522~1542	3.5	1.3	35@1512~1517MHz 35@1547~1552MHz	20	SMA	90*40*25
FSBP200-1550-1610-N	1550~1610	1	1.3	60@DC~1300MHz 60@1700~2700MHz	200	N	88*60*33
FSBP5-1600-2600-S	1600~2600	1.5	1.43	45@DC~1216MHz 45@3030~5000MHz	5	SMA	73*34*14
FSBP10-1616-1626.5-P05	1616~1626.5	2.2	1.5	60@DC~1602MHz 60@1640-3000MHz	10	PIN	91*42*22
FSBP10-1790-1810-S	1790~1810	1.5	1.22	50@DC~1770MHz 50@1830~4000MHz	10	SMA	80*42*24
FSBP10-1805-1880-S	1805~1880	2	1.3	25@DC~1790MHz 25@1895-3000MHz	10	SMA	83*36*17
FSBP10-1850-1915-S	1850~1915	2.4	1.5	60@DC-1835MHz 60@1930-2500MHz	10	SMA	118*50*25
FSBP200-2000-4000-N	2000~4000	1	1.7	40@DC~1800MHz 40@4200~6000MHz	200	N	75*33*12
FSBP10-2110-2170-S	2110~2170	2	1.3	25@DC~2095MHz 25@2185-3000MHz	10	SMA	83*36*17
FSBP5-2170-2200-S	2170~2200	1.5	1.3	15@2100~2150MHz 15@2220~2280MHz	5	SMA	72.5*50*28
FSBP10-2170-2200-S	2170~2200	1.5	1.3	50@DC~2150MHz 50@2220~5000MHz	10	SMA	114*52*22
FSBP10-2200-2290-N	2200~2290	1.5	1.4	45@2300~2360MHz 65@2360~4000MHz	10	N	175*75*32
FSBP2-2280-2580-P05	2280~2580	1.0	1.3	30@DC~2100MHz 30@2800~4560MHz	2	PIN	108*25*18
FSBP5-2750-5000-S	2750~5000	1.0	1.5	35@DC~2000MHz 20@5.5~8250GHz	5	SMA	37*22*10
FSBP500-2800-3400-7	2800~3400			50@DC~2500MHz 50@3700~6000MHz	500	7/16 Din	185*44*34
FSBP20-2800-3600-S	2800~3600	0.7	1.4	40@5250~6000MHz 50@8500~10500MHz	20	SMA	72*24*13
FSBP5-3125-5125-S	3125~5125	1.0	1.5	35@DC~2600MHz 50@6375~10000MHz	5	SMA	40*22*10
FS3BP10-3300-3600-S	3300~3400 3400~3500 3500~3600	1.1	1.3	40@DC-3250MHz 40@3450-5000MHz 40@DC-3350MHz 40@3550-5000MHz 40@DC-3450MHz 40@3650-5000MHz	10	SMA	95*50*20
FSBP10-3625-4200-N	3625~4200	0.5	1.3	70@DC~3500MHz 65@3500~3520MHz	10	N	155*60*25

Model	Passband (MHz)	IL. (dB.Max)	VSWR (max)	Rejection (dB.min)	Power (W)	Connector	Dimension (mm)
FSBP100-3800-4000-N	3800~4000	1.5	1.35	30@3700-3775MHz 30@4025-4100MHz	100	N	155*80*26
FSBP20-3927-3992-S	3927~3992	1.4	1.4	40@DC~3840MHz	20	SMA	40*24*16
FSBP5-4150-4400-S	4150~4400	1.25	1.3	65@3750-3850MHz 65@4700-6000MHz	5	SMA	40*29*8.5
FS3BP10-4800-5000-S	4800~4900 4900~4960 4960~5000	1.5	1.3	40@DC-4750MHz 40@4950-8000MHz 40@DC-4850MHz 40@5010-8000MHz 40@DC-4910MHz 40@5050-8000MHz	10	SMA	95*50*16
FSBP15-5000-6200-S	5000~6200	1.5	1.5	45@DC~3900MHz 45@6700~13000MHz	15	SMA	39*14*8
FSBP5-5030-5250-S	5030~5250	0.5	1.3	35@4500~4880MHz 35@5400~5750MHz	5	SMA	60*33*12
FSBP10-5150-5250-S	5150~5250	1.25	1.3	60@DC~5050MHz 60@5350~8000MHz	10	SMA	90*38*14
FSBP60-5200-5600-S	5200~5600	1.2	1.22	60@DC~4900MHz 60@5900~8000MHz	60	SMA	151.5*21.5*19
FSBP20-5250-6000-S	5250~6000	0.7	1.4	40@2800~3600MHz 40@8500~10500MHz	20	SMA	70*19*13
FSBP10-5400-5900-S	5400~5900	1	1.3	30@4900~5100MHz 30@6100~6300MHz	10	SMA	113*20*11
FSBP5-5500-6500-S	5500~6500	1.8	1.5	45@DC~5000MHz	5	SMA	58*20*10
FSBP10-5600-5700-S	5600~5700	1.5	1.3	30@5300~5500MHz 30@5800~6000MHz	10	SMA	90*20*11
FSBP5-5850-6650-S	5850~6650	0.8	1.5	60@DC~3800MHz 60@8000~12000MHz	5	SMA	55*15.9*14
FSBP5-6000-12000-S	6000~12000	1.2	1.80	45@DC~3500MHz 35@15000MHz	5	SMA	36.5*21*10
FSBP5-7000-13000-S	7000~13000	1.0	1.7	40@14000~20000MHz	5	SMA	51.5*21*10
FSBP10-7150-8150-S	7150~8150	1	1.4	63@DC~6300MHz 80@9500~15000MHz	10	SMA	57*15*10
FSBP20-8200-8700-S	8200~8700	1	1.5	70@DC~7700MHz 70@9200~15000MHz	20	SMA	41*41*10.5
FS3BP10-8215-8375-S	8215~8231 8287~8303 8359~8375	6.5	1.5	40@DC-8202MHz 40@8244-10000MHz 40@DC-8274MHz 40@8316-10000MHz 40@DC-8346MHz 40@8388-10000MHz	10	SMA	95*90*10
FSBP10-8250-9250-S	8250~9250	1	1.4	65@DC~7300MHz 80@11300~15000MHz	10	SMA	54*15*9

Model	Passband (MHz)	IL. (dB.Max)	VSWR (max)	Rejection (dB.min)	Power (W)	Connector	Dimension (mm)
FSBP20-8500-10500-S	8500~10500	0.7	1.4	70@2800~3600MHz 40@5250~6000MHz	20	SMA	56*18*13
FSBP24-9000-9500-P05	9000~9500	0.3	1.3	40@5000-7000MHz 40@18000-19000MHz	120	PIN	43*18*17
FSBP10-9150-9350-S	9150~9350	5	1.5	30@DC~9125MHz 30@9375~11250MHz	10	SMA	96*31*10.5
FSBP5-9200-9600-S	9200~9600	0.6	1.34	30@DC-8950MHz 30@9850-12000MHz	5	SMA	49*34*15
FSBP10-9400-9500-P05	9400~9500	1	1.4	25@8000~9200MHz 25@9700~11700MHz	10	PIN	33*19*10
FSBP10-9700-10000-S	9700~10000	1	1.4	65@DC~8100MHz 70@11500~15000MHz	10	SMA	40*13*9
FSBP5-9870-9890-S	9870~9890	4	1.5	25@DC~9850MHz 25@9910~12000MHz	5	SMA	60*30*10
FSBP5-9950-9970-S	9950~9970	4	1.5	25@DC~9930MHz 25@9990~12000MHz	5	SMA	60*30*10
FSBP10-10200-11000-S	10200~11000	0.5	1.3	30@9000~9800MHz 30@11400~12200MHz	10	SMA	60*32*10.5
FSBP5-11740-12240-P05	11740~12240	1	1.25	30@DC~11240MHz 30@12740~22000MHz	5	PIN	60*16*9
FSBP5-12250-13050-S	12250~13050	1.5	1.35	60@DC~11800MHz 60@13500~20000MHz	5	SMA	43*33*11
FSBP10-12750-13250-P05	12750~13250	1.6	1.5	50@DC~12300MHz 70@14650~16650MHz	10	PIN	37*21*6.5
FSBP5-12900-13100-P	12900~13100	1.5	1.3	40@10000~12400MHz 60@13450~14000MHz	5	SMP	37*22*9
FSBP5-13200-13800-S	13200~13800	1.2	1.29	40@5500~9500MHz 40@14250~22250MHz	5	SMA	75.5*14*10
FSBP10-13750-14500-P05	13750~14500	2	1.5	45@DC~13550MHz 70@15650~17900MHz	10	PIN	53*21*6.5
FSBP2-14300-14700-P05	14300~14700	1	1.25	30@DC~13700MHz 30@15300~24000MHz	2	PIN	60*16*9
FSBP10-16400-17200-S	16400~17200	1.5	1.3	30@15400~16200MHz 30@17800~18600MHz	10	SMA	55*25*10.5
FSBP5-17700-18700-S	17700~18700	1.5	1.43	45@DC~16700MHz 45@19700~22000MHz	5	SMA	40*21*8
FSBP5-17700-21200-S	17700~21200	0.7	1.22	50@15100~16000MHz 55@22850~23350MHz	5	SMA	60*16*9.5
FSBP5-18000-23000-S	18000~23000	1.0	1.30	50@DC~17000MHz 50@24000~36000MHz	5	SMA	60*16*9.5
FSBP5-18700-19750-K	18700~19750	1.5		45@DC~17700MHz 45@20750~23000MHz	5	2.92mm	40*21*8
FSBP5-24500-28000-K	24500~28000	0.9	1.22	80@DC~22500MHz	5	2.92mm	60*16*8.5

Model	Passband (MHz)	IL. (dB.Max)	VSWR (max)	Rejection (dB.min)	Power (W)	Connector	Dimension (mm)
				80@30000~46000MHz			
FSBP5-26000-40000-K	26000~40000	1.1	1.29	50@24000~25000MHz 35@41000~42300MHz	5	2.92mm	70*16*9
FSBP5-27900-28100-K	27900~28100	2	1.22	55@27200~27500MHz 55@28500~28800MHz	5	2.92mm	50*16*7.5
FSBP5-29800-30400-K	29800~30400	1.5	1.22	60@29000~29200MHz 60@31000~31200MHz	5	2.92mm	60*16*8
FSBP5-37300-42200-2	37300~42200	1.1	1.29	80@DC~34950MHz 60@44200~44950MHz	5	2.4mm	50*16*8

Low Pass Filters

Model	Passband (MHz)	IL. (dB.Max)	VSWR (max)	Rejection (dB.min)	Power (W)	Connector	Dimension (mm)
FSLP5-0-5-S	DC~5	1.0	1.5	30@10~100MHz	5	SMA	40.4*12*10
FSLP0.5-0-15-N	DC~15	1.8	1.43	30@18~50MHz	0.5	SMA	40.4*12*10
FSLP2-0-45-N	DC~45	1.0	1.4	60@90~300MHz	2	N	40*20*20
FSLP330-0-108-N	DC~108	1.2	1.4	20@115~300MHz	330	N	100*30*25
FSLP2-0-150-N	DC~150	1.0	1	60@300~800MHz	2	N	40*20*20
FSLP1-0-400-S	DC~400	1.8	1.5	30@450~1000MHz	1	SMA	40.4*12*10
FSLP2-0-450-N	DC~450	1.0	1.5	60@900~1500MHz	2	N	40*20*20
FSLP15-0-12000-S	DC~12000	1.0	1.8	45@16320~26000MHz	15	SMA	50*16*10

High Pass Filters

Model	Passband (MHz)	IL. (dB.Max)	VSWR (max)	Rejection (dB.min)	Power (W)	Connector	Dimension (mm)
FSHP10-25-200-N	25~200	2.0	1.5	40@DC~20MHz	10	N	40*20*20
FSHP10-108-800-N	108~800	2.5	1.5	40@DC~98MHz	10	N	40*20*20
FSHP10-185-2000-N	185~2000	2.0	1.5	40@DC~150MHz	10	N	40*20*20
FSHP10-600-4000-N	600~4000	0.8	1.5	20@DC~470MHz	10	N	40*20*20
FSHP10-800-6000-N	800~6000	2.0	1.8	40@DC~650MHz	10	N	40*20*20
FSHP50-1000-6000-N	1000~6000	1.6	1.5	30@DC~930MHz	50	N	50*20*20
FSHP10-1000-18000-S	1000~18000	2.0	2.0	60@DC~800MHz	10	SMA	60*25*12
FSHP10-2000-7200-N	2000~7200	0.8	1.5	40@DC~960MHz	10	N	40*20*20
FSHP5-2000-18000-N	2000~18000	1.0	1.8	60@DC~1215MHz	5	N	40*20*20
FSHP2-2000-18000-S	2000~18000	3.0	2.0	10@DC~1800MHz	2	SMA	20*16*8
FSHP10-2540-18000-S	2540~18000	3.0	2.0	40@DC~2340MHz	10	SMA	20*16*8
FSHP15-4574-21000-S	4574~21000	2.5	1.5	25@DC~4330MHz	15	SMA	36*25*10
FSHP5-8000-26500-S	8000~26500	3.0	1.8	70@DC~7000MHz	5	SMA	50*20*12
FSHP2-12000-26500-S	12000~26500	2.0	1.67	50@DC~10000MHz	2	SMA	25*15*10
FSHP2-12000-26500-S	12000~26500	2.0	1.67	50@DC~10000MHz	2	SMA	25*15*10

Band Reject Filters

Model	Passband (MHz)	IL. (dB.Max)	VSWR (max)	Rejection (dB.min)	Power (W)	Connector	Dimension (mm)
FSBR1-607-708-S	607~708	2.0	1.8	40	1	SMA	30*18*13
FSBR10-708-738-S	708~738	1.0	1.5	40	10	SMA	265*94*28
FSBR20-1550-1610-S	1550~1610	1.5	1.5	50	20	SMA	245*50*22
FSBR20-1920-2010-S	1920~2010	2.0	1.7	40	20	SMA	245*47*22
FSBR10-2200-2600-S	2200~2600	1.0	1.5	50	10	SMA	209*34*22
FSBR10-3400-3600-S	3400~3600	2.0	1.7	50	10	SMA	141*31*16
FSBR5-4400-5000-S	4400~5000	1.0	1.7	50	5	SMA	141*26*16
FSBR20-4800-5000-S	4800~5000	1.0	1.7	60	20	SMA	137*29*11
FSBR20-5150-5250-S	5150~5250	1.0	1.7	40	20	SMA	137*29*11
FSBR5-5150-5850-S	5150~5850	1.5	1.7	50	5	SMA	141*23*16

Diplexers

Model	Passband (MHz)	IL. (dB.Max)	VSWR (max)	Power (W)	Connector	Dimension (mm)
FS2MP50-703-803-S	703~748 758~803	1.5	1.4	50	SMA	158*128*46
FS2MP50-763-805-N-S	763~775 793~805	2.5	1.3	50	N/SMA	111*101*50
FS2MP50-806-869-N	806~824 851~869	2.5	1.3	50	N	127*101*50
FS2MP3-811-866-S	811~821 856~866	2.0	1.4	3	SMA	192*94*44
FS2MP100-824-880-S	824~835 869~880	1.0	1.3	100	SMA	145*60*46
FS2MP10-880-960-S	880~915 925~960	2.5	1.4	10	SMA	169*103*26.5
FS2MP100-880-960-S	880~915 925~960	1.5	1.3	100	SMA	115*115*46
FS2MP80-890-960-S	890~915 935~960	1.5	1.27	80	SMA	127*100*46
FS2MP10-902-2482-N	902~928 2400~2482	1.6	1.5	10	N	69.85*60.96*40.5
FS2MP20-1608-2503-S	1608~1628 2480~2503	0.6	1.4	20	SMA	71*45.5*26
FS2MP30-1710-1830-N	1710~1735 1805~1830	1.3	1.3	30	N	116*88*31
FS2MP10-1710-1880-S	1710~1785 1805~1880	1.5	1.43	10	SMA,N	142*115*34
FS2MP50-1745-1875-S	1745~1780 1840~1875	0.5	1.4	50	SMA	156*118*31

FS2MP50-1880-2370-S	1880~1920 2320~2370	1.2	1.5	50	SMA	156*118*31
FS2MP50-1880-2635-S	1880~1920 2575~2635	1.2	1.5	50	SMA	156*118*31
FS2MP100-1920-2170-S	1920~1980 2110~2170	1.5	1.3	100	SMA	105*55*33
FS2MP20-1980-2200-S	1980~2010 2170~2200	0.6	1.4	20	SMA	93*49*21
FS2MP50-2000-2400-N	2000~2150 2200~2400	1	1.4	50	N	156*81*25
FS2MP10-2020-2300-S	2020~2120 2200~2300	0.8	1.5	10	SMA	76*65*20
FS2MP20-2400-5850-S	2400~2480 5725~5850	1.5	1.3	20	SMA	78*68*20
FS2MP100-2500-2690-S	2500~2570 2620~2690	1.5	1.3	100	SMA	105*80*26
FS2MP50-3300-5000-N-S	3300~3800 4800~5000	1	1.5	50	N/SMA	110*43*21
FS2MP25-4400-7400-S	4400~5200 6000~7400	0.7	1.5	25	SMA	80*36*15
FS2MP100-7125-8500-S	7125~7300 7900~8500	1.5	1.3	100	SMA	65*65*12

Triplexers

Model	Passband (MHz)	IL. (dB.Max)	VSWR (max)	Power (W)	Connector	Dimension (mm)
FS3MP20-398-509-S	398.2~408.2 448.6~458.6 499~509	1.5	1.5	20	SMA	263*134*61
FS3MP20-400-432-S	400~406.4 412.6~419 425.2~431.6	1.8	1.5	20	SMA	220*177*61
FS3MP5-1350-5000-N-S	1350~1390 2200~2400 4400~5000	0.8	1.7	5	SMA,N	70*54*24
FS3MP5-1350-5000-S	1350~1390 2200~2400 4400~5000	0.8	1.7	5	SMA	70*54*24
FS3MP30-1439-1961-S	1439~1461 1639~1661 1939~1961	1.0	1.3	30	SMA	76*62*26

FS3MP50-1850-2690-N	1850~1915 1930~1995 1710~1780 2110~2180 2490~2690	1.5	1.5	50	N	130*127*30
FS3MP20-2800-10500-S	2800~3600 5250~6000 8500~10500	0.8	1.7	20	SMA	70*53*13
FS3MP20-398-509-S	398.2~408.2 448.6~458.6 499~509	1.5	1.5	20	SMA	263*134*61

Combiners

Model	Passband (MHz)	IL. (dB.Max)	VSWR (max)	Power (W)	Connector	Dimension (mm)
FS2MC150-925-1880-S	925-960 1805-1880	1.0	1.3	150	SMA	155*79*67
FS2MC200-1805-1870-N	1805~1835 1850~1870	1.0	1.3	200	N	270*164*28
FS2MC300-2475-2501-N	2475~2485 2499~2501	2.0	1.5	300	N	194*80*23.5
FS2MC40-2496-3600-S	2496~2690 3300~3600	1.0	1.3	40	SMA	120*36*33
FS3MC10-703-3600-S	703~743 758~798 3400~3600	1.5	1.4	10	SMA	188*103*41
FS3MC20-703-2690-S	703~748 758~803 2496~2690	1.5	1.5	20	SMA	143*136*51
FS3MC30-830-1620-S	830~930 1175~1280 1520~1620	1.0	1.5	30	SMA	100*90*45
FS3MC50-902-2260-N	902~928 1350~1390 2240~2260	2.0	1.4	50	N	135*94*42
FS3MC40-1150-2500-S	1150~1300 1560~1620 2400~2500	1.5	1.5	40	SMA	90*85*25
FS3MC30-1900-2660-N	1900~1920 2200~2220 2640~2660	1.0	1.3	30	N	100*85*28
FS4MC40-703-880-S	703~748 758~803 824~835 869~880	0.8	1.5	40	SMA	233*168*46

Model	Passband (MHz)	IL. (dB.Max)	VSWR (max)	Power (W)	Connector	Dimension (mm)
FS4MC20-703-2170-S	703~748 758~803 1920~1980 2110~2170	1.5	1.5	20	SMA	156*143*51
FS4MC20-840-1620-S	840~930 1170~1270 1430~1444 1550~1620	1.0	1.5	20	SMA	117*97*42.5
FS4MC50-1710-2170-S	1710~1785 1805~1880 1920~1980 2110~2170	1.5	1.5	50	SMA	176*127*36
FS4MC30-1710-2200-S	1710~1785 1850~1910 1930~1990 2110~2200	2.0	1.5	30	SMA	140*116*26
FS4MC50-1920-3800-S	1920~1980 2110~2170 2515~2615 3300~3800	0.8	1.4	50	SMA	130*130*26
FS4MC50-1920-5000-S	1920~1980 2110~2170 3300~3400 4400~5000	1.0	1.5	50	SMA	110*110*34
FS4MC40-2515-4960-S	2515~2600 2620~2690 3300~3600 4800~4960	1.3	1.5	40	SMA	233*168*25
FS5MC30-703-960-S	703~733 738~821 832~862 880~915 926~960	2.0	1.8	30	SMA	236*217.5*46
FS5MC20-1128-5900-S	1128~1280 1400~1460 1520~1620 2400~2500 5700~5900	1.5	1.7	20	SMA	115*90*43
FS5MC30-1800-5000-S	1800~2000 2300~2400 2500~2700 3400~3600 4800~5000	1.5	1.5	30	SMA	130*101*30

Model	Passband (MHz)	IL. (dB.Max)	VSWR (max)	Power (W)	Connector	Dimension (mm)
FS5MC100-1830-5850-N-S	1830~2040 2510~2680 3300~3600 4800~5000 5725~5850	0.8	1.7	100	N/SMA	106*98*28
FS5MC40-1892-2390-S	1892.5~1912.5 1920~1980 2012.5~2022.5 2110~2170 2300~2390	0.8	1.5	40	SMA	363*136*27

Power Dividers & Combiners

We provide RF & Microwave Power Dividers and Combiners with frequencies up to 67GHz. A complete range of products is available, including Wilkinson and Resistive types, with custom designs supported for various application requirements. Our products are manufactured to meet demanding military and industrial standards, ensuring reliable performance in critical RF systems.

Key features:

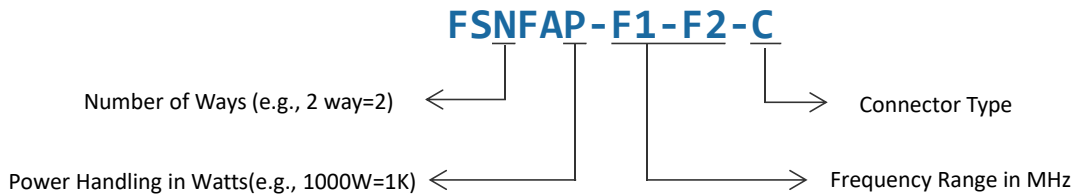
- Low Insertion Loss & VSWR
- High Power Handling
- High Isolation
- Military Grade Quality

Applications:

- Wireless Communication
- Radar & Electronic Warfare Systems
- Satcom(Ground Stations)
- Test and Measurement



Model Number System:



For Example: FS2FA100-500-6000-N represent 2 way power divider, 0.5-6GHz, 100W, N-Female

2-Way Power Dividers & Combiners

Model	Freq. (GHz)	FWD Power	REV Power	Iso. (dB.min)	IL. (dB.max)	VSWR (max)	PhBal. (max)	AmpBal. (max)	Conn.	Dimension (mm)
FS2PD1-0-1000-B	DC~1	1	/	6	7	1.2	±3°	±0.3dB	BNC	38*32*20
FS2PD1-0-2500-S	DC~2.5	1	/	5.9	7	1.2	±3°	±0.3dB	SMA	38*32*16
FS2PD2-0-6000-S	DC~6	2	/	5.8	4.2	1.35	±3°	±0.3dB	SMA	28*28*10
FS2PD1-0-18000-S	DC~18	1	1	/	1.4	1.4	±3°	±0.3dB	SMA	15.2*15.2*10.16
FS2PDR1-0-26500-K	DC~26.5	0.1	0.1	/	2	1.5	±5°	±0.5dB	2.92mm	15.2*15.2*10.16
FS2PDR2-0-27000-S	DC~27	0.2	0.2	/	1.7	1.6	±5°	±0.5dB	SMA	15.2*15.2*10.16
FS2PD3-0-40000-K	DC~40	3	/	13	8	2.5	±5°	±0.5dB	2.92mm	15.2*15.2*10.2
FS2PD1-1-750-S	0.001~0.75	1	0.1	20	0.8	1.4	±3°	±0.3dB	SMA	28*28*12.7
FS2PD1-5-1000-S	0.005~1	1	0.1	18	1	1.3	±3°	±0.3dB	SMA	28*28*12.7
FS2PDR5-50-90-B	0.05~0.09	0.5	0.05	20	0.6	1.25	±3°	±0.3dB	BNC	56*34*22
FS2PD1-100-18000-S	0.1~18	1	/	/	1.4	1.4	±3°	±0.3dB	SMA	15.2*15.2*10.16
FS2PD250-200-1000-S	0.2~1	250	/	14	0.7	1.45	±3°	±0.3dB	SMA	90*88*15
FS2PD50-200-2000-N	0.2~2	50	/	16	1.2	1.4	±4°	±0.3dB	N	60*53*22
FS2PD30-200-2700-S	0.2~2.7	30	1	18	1.2	1.3	±2°	±0.2dB	SMA	200*70*12
FS2PD30-300-600-N	0.3~6	30	2	20	0.4	1.2	±2°	±0.2dB	N	63*50*20
FS2PD30-350-3800-N	0.35~3.8	30	3	18	1.2	1.4	±3°	±0.3dB	N	90*54.7*20
FS2PD200-400-1000-S	0.4~1	200	/	15	0.5	1.25	±5°	±0.32B	SMA	60.96*60.96*18
FS2PD20-500-18000-S	0.5~18	20	1	16	1.2	1.5	±5°	±0.3dB	SMA	157*26*10
FS2PD20-500-26500-S	0.5~26.5	20	1	16	2.4	1.55	±4°	±0.4dB	SMA	149*25*10

FS2PD20-500-40000-K	0.5~40	20	1	16	2.8	1.6	±4°	±0.4dB	2.92mm	149*25*10
FS2PD50-600-3900-S	0.6~3.9	50	/	18	0.6	1.3	±4°	±0.2dB	SMA	150*29.4*10
FS2PD30-600-6000-S	0.6~6	30	2	20	1	1.25	±3°	±0.2dB	SMA	36*45*12
FS2PD30-600-6000-N	0.6~6	30	2	20	1.2	1.25	±3°	±0.2dB	N	50*56*20
FS2PD20-698-3000-S	0.698~3	20	1	20	0.6	1.25	±2°	±0.2dB	SMA	43.8*23.8*13.2
FS2PD100-700-2700-N	0.7~2.7	100	10	18	0.6	1.35	±3°	±0.2dB	N	82*62*22
FS2PD50-800-2500-N	0.8~2.5	50	1	22	0.4	1.25	±3°	±0.2dB	N	75*45.7*18.7
FS2PD20-950-2000-N	0.95~2	20	0.5	20	0.5	1.25	±2°	±0.2dB	N	56*46*20.5
FS2PD20-950-18000-S	0.95~18	20	1	16	1.4	1.4	±5°	±0.3dB	SMA	86*24*10
FS2PD30-1000-2000-S	1~2	30	1	22	0.35	1.2	±2°	±0.2dB	SMA	28*28*10
FS2PD20-1000-18000-S	1~18	20	1	18	1.2	1.35	±3°	±0.3dB	SMA	99*24*10
FS2PD20-1000-26000-K	1~26	20	1	16	2.2	1.5	±5°	±0.4dB	2.92mm	86*24*10
FS2PD10-1000-26500-K	1~26.5	10	1	15	1.8	1.6	±5°	±0.4dB	SMA	86*24*10
FS2PD20-1000-40000-K	1~40	20	1	16	1.8	1.8	±5°	±0.4dB	2.92mm	78*26*10
FS2PD20-2000-2500-S	2~2.5	20	1	20	0.3	1.25	±3°	±0.2dB	SMA	28*28*10
FS2PD30-2000-4000-S	2~4	30	1	20	0.4	1.25	±2°	±0.2dB	SMA	28*28*10
FS2PD30-2000-5000-N	2~5	30	1	20	0.6	1.3	±3°	±0.3dB	N	45*25.4*20
FS2PD30-2000-8000-S	2~8	30	2	20	0.6	1.3	±3°	±0.3dB	SMA	28*28*10
FS2PD30-2000-8000-N	2~8	30	2	20	0.6	1.3	±3°	±0.2dB	N	43*29*20
FS2PD10-2000-12400-S	2~12.4	10	1.6	18	1.2	1.4	±4°	±0.3dB	SMA	35*24*10
FS2PD20-2000-18000-K	2~18	20	1	18	1	1.4	±4°	±0.3dB	2.92mm	47*24*10
FS2PD20-2000-18000-S	2~18	20	1	18	1	1.4	±4°	±0.3dB	SMA	47*24*10
FS2PD100-2000-18000-S	2~18	100	/	/	1	1.5	±4°	±0.3dB	SMA	63*28*11
FS2PD10-2000-40000-K	2~40	10	1	16	2.5	1.7	±5°	±0.5dB	2.92mm	43.1*25.4*10
FS2PD30-2500-8400-S	2.5~8.4	30	1	20	0.6	1.3	±2°	±0.2dB	SMA	28*28*10
FS2PD50-4000-8000-S	4~8	50	2	20	0.5	1.25	±3°	±0.3dB	SMA	28*28*10
FS2PD50-4200-7000-N	4.2~7	50	3	16	1	1.3	±3°	±0.2dB	N	66*56*22
FS2PD10-6725-7025-N	6.725~7.025	10	0.5	20	0.5	1.25	±3°	±0.2dB	N	38*29*20
FS2PD10-6000-12000-S	6~12	10	1	18	0.4	1.25	±3°	±0.2dB	SMA	28*28*10
FS2PD20-6000-18000-S	6~18	20	1	18	0.8	1.4	±4°	±0.3dB	SMA	30*24*10
FS2PD20-8000-12000-S	8~12	20	1	18	0.6	1.3	±3°	±0.2dB	SMA	30*24*10
FS2PD20-10000-15000-N	10~15	20	1	18	0.9	1.4	±3°	±0.3dB	N	48*36*20
FS2PD20-10000-15000-S	10~15	20	1	20	0.5	1.35	±3°	±0.2dB	SMA	28*28*10
FS2PD10-10000-30000-K	10~30	10	1	17	0.8	1.5	±5°	±0.5dB	2.92mm	25.4*15.24*10
FS2PD10-15000-35000-K	15~35	10	1	18	1.8	1.6	±5°	±0.3dB	2.92mm	26*19*10
FS2PD20-18000-40000-K	18~40	20	1	16	1.5	1.6	±4°	±0.4dB	2.92mm	25.4*15.24*10
FS2PD20-23000-24000-K	23~24	20	1	20	0.6	1.5	±4°	±0.4dB	2.92mm	26*19*10
FS2PD20-25000-27000-K	25~27	20	1	20	0.6	1.5	±4°	±0.4dB	2.92mm	26*19*10
FS2PD5-25500-27000-K	25.5~27	5	1	17	0.5	1.35	±4°	±0.4dB	2.92mm	26*19*10
FS2PD20-27000-31000-K	27~31	20	1	18	1	1.5	±4°	±0.4dB	2.92mm	26*19*10
FS2PD1-33000-37000-K	33~37	1	1	20	1.4	1.5	±5°	±0.5dB	2.92mm	25.4*15.24*10

3-Way Power Dividers & Combiners

Model	Freq. (GHz)	FWD Power	REV Power	Iso. (dB.min)	IL. (dB.max)	VSWR (max)	PhBal. (max)	AmpBal. (max)	Conn.	Dimension (mm)
FS3PD2-0-1000-S	DC~1	2	2	9.5	4.7	1.2	/	±0.5dB	SMA	25.4*25.4*16
FS3PD1-0-2500-S	DC~2.5	1	/	9	10	1.25	±3°	±0.3dB	SMA	45*34*12.5
FS3PD2-0-6000-S	DC~6	2	/	9	6	1.4	±4°	±0.4dB	SMA	45*34*12.5
FS3PD1-10-1000-S	0.01~1	1	0.15	15	2	1.5	±5°	±0.5dB	SMA	50*40*15
FS3PD300-698-3800-N	0.698~3.8	300	/	/	0.8	1.3	/	/	N	225*25*25
FS3PD50-800-2500-N	0.8~2.5	50	1	22	0.6	1.3	/	±0.35dB	N	94*77*19
FS3PD20-8000-18000-S	8~18	20	1	18	0.8	1.5	±6°	±0.6dB	SMA	37.5*25*10

4-Way Power Dividers & Combiners

Model	Freq. (GHz)	FWD Power	REV Power	Iso. (dB.min)	IL. (dB.max)	VSWR (max)	PhBal. (max)	AmpBal. (max)	Conn.	Dimension (mm)
FS4PD1-0-1000-B	DC~1	1	/	11.5	13.5	1.2	±8°	±0.8dB	BNC	100*50*20
FS4PD1-0-2500-S	DC~2.5	1	/	11.6	13	1.25	/	±0.6dB	SMA	25.4*22.2*16
FS4PD3-0-13000-S	DC~13	3	/	11.5	15	2.5	±5°	±0.4dB	SMA	55*34*10
FS4PDR2-0-18000-S	DC~18	0.2	0.2	/	2.5	1.6	±5°	±0.5dB	SMA	58.42*19.05*10.16
FS4PD3-0-27000-S	DC~27	3	/	11	15	2.5	±6°	±0.5dB	SMA	55*34*10
FS4PDR5-1-200-S	0.001~0.2	0.5	/	20	0.8	1.4	±4°	±0.3dB	SMA	89*31*13
FS4PD1-5-500-S	0.005~0.5	1	0.1	20	1.2	1.3	±4°	±0.4dB	SMA	70*40*12
FS4PDR5-5-1000-N	0.005~1	0.5	0.1	18	2	1.3	±4°	±0.4dB	N	108*40*22
FS4PDR5-50-90-B	0.05~0.09	0.5	0.1	18	1.2	1.25	±4°	±0.4dB	BNC	92*40*20
FS4PD30-200-2700-S	0.2~2.7	30	1	18	3.5	1.5	±4°	±0.4dB	SMA	130*110*12
FS4PD20-300-6000-S	0.3~6	20	1	20	2.5	1.35	±4°	±0.3dB	SMA	108*92*12
FS4PD20-500-18000-S	0.5~18	20	1	15	2.5	2	±8°	±0.8dB	SMA	163*68*10
FS4PD30-500-18000-S	0.5~18	30	1	17	4	1.6	±5°	±0.5dB	SMA	180*70*10
FS4PD20-500-26500-S	0.5~26.5	20	1	16	5	1.8	±10°	±1.0dB	SMA	180*70*10
FS4PD5-500-40000-S	0.5~40	5	1	11	5.2	1.7	±8°	±0.7dB	2.92mm	110.5*74*12.7
FS4PD30-500-6000-S	0.5~6	30	2	14	1.5	1.4	±3°	±0.3dB	SMA	66.2*57*12
FS4PD30-500-6000-N	0.5~6	30	2	18	1.8	1.3	±4°	±0.3dB	N	100*92*20
FS4PD30-600-6000-S	0.6~6	30	2	20	1.6	1.25	±4°	±0.3dB	SMA	80*66*14
FS4PD20-698-3000-S	0.698~3	20	1	18	0.8	1.25	±3°	±0.3dB	SMA	60*60*12
FS4PD30-698-6000-N	0.698~6	30	2	18	1.8	1.3	±4°	±0.3dB	N	100*92*20
FS4PD30-698-6000-S	0.698~6	30	2	20	1.6	1.25	±4°	±0.3dB	SMA	80*66*12
FS4PC5-698-6000-S	0.698~6	30	5	16	1.4	1.6	±5°	±0.5dB	SMA	128*59*10
FS4PC5-698-6000-N	0.698~6	30	5	16	1.4	1.6	±5°	±0.5dB	N	127*101.6*20
FS4PD20-698-26500-S	0.698~26.5	20	1	15	5	1.6	±6°	±0.6dB	SMA	180*70*10
FS4PD50-800-2500-N	0.8~2.5	50	1	22	0.7	1.3	/	±0.35dB	N	94*77*19
FS4PD300-800-2500-N	0.8~2.5	300	/	/	0.4	1.25	±30°	/	N	236*25*25
FS4PD300-800-3500-N	0.8~3.5	300	/	/	0.4	1.25	±40°	/	N	236*25*25
FS4PD20-950-2000-N-DC	0.95~2	20	1	20	0.6	1.25	±3°	±0.3dB	N	102*72*20
FS4PD20-1000-3000-T-DC	1~3	20	1	18	0.8	1.25	±3°	±0.3dB	TNC	102*72*20
FS4PD20-1000-40000-K	1~40	20	1	15	4.8	1.8	±7°	±0.5dB	2.92mm	110.5*74*10

FS4PD20-2000-2500-N	2~2.5	20	1	20	0.6	1.25	±3°	±0.3dB	N	97*49*20
FS4PD20-2000-2500-S	2~2.5	20	1	20	0.5	1.25	±2°	±0.2dB	SMA	58*44*10
FS4PD30-2000-4000-S	2~4	30	2	20	0.5	1.25	±3°	±0.3dB	SMA	56*50*10
FS4PD30-2000-5000-N	2~5	30	1	18	1.4	1.5	±5°	±0.5dB	N	99*43*20
FS4PD20-2000-6000-S	2~6	20	1	18	0.6	1.3	±2°	±0.2dB	SMA	56*50*10
FS4PD30-2000-8000-S	2~8	30	2	18	1.4	1.4	±5°	±0.5dB	SMA	56*50*10
FS4PD20-2000-18000-S	2~18	20	1	17	1.6	1.5	±6°	±0.4dB	SMA	55*52*10
FS4PD30-2500-8400-S	2.5~8.4	30	1	20	1	1.35	±3°	±0.3dB	SMA	56*50*10
FS4PD20-4500-4800-N	4.5~4.8	20	1	20	0.7	1.25	±3°	±0.3dB	N	97*49*20
FS4PD20-6000-18000-S	6~18	20	1	18	1.2	1.5	±6°	±0.3dB	SMA	50.5*45*10
FS4PD15-6000-26500-K	6~26.5	15	1	16	1.9	1.6	±3°	±0.3dB	2.92mm	50.8*38.1*10
FS4PD20-7000-12400-S	7~12.4	20	1	18	0.6	1.4	±3°	±0.3dB	SMA	49*30*10
FS4PD20-10000-15000-S	10~15	20	1	20	0.9	1.4	±5°	±0.3dB	SMA	50.5*45*10
FS4PD20-10000-15000-N	10~15	20	1	18	1.5	1.5	±5°	±0.5dB	N	98*71*20
FS4PD20-10000-26500-K	10~26.5	20	0.5	16	1.9	1.6	±5°	±0.5dB	2.92mm	50.8*24.5*10
FS4PD20-18000-26500-K	18~26.5	20	0.5	16	2	1.6	±5°	±0.5dB	2.92mm	58*19*10
FS4PD20-18000-32000-K	18~32	20	1	16	1.5	1.5	±5°	±0.5dB	2.92mm	52*35*10
FS4PD20-18000-40000-K	18~40	20	1	18	1.6	1.5	±6°	±0.4dB	2.92mm	52.3*38.1*10
FS4PD10-26500-40000-K	26.5~40	10	1	15	2.4	1.8	±5°	±0.5dB	2.92mm	50.8*24.5*10
FS4PD10-33000-35000-K	33~35	10	1	14	2.4	1.8	±6°	±0.6dB	2.92mm	50.8*24.5*10

6-Way Power Dividers & Combiners

Model	Freq. (GHz)	FWD Power	REV Power	Iso. (dB.min)	IL. (dB.max)	VSWR (max)	PhBal. (max)	AmpBal. (max)	Conn.	Dimension (mm)
FS6PD20-300-6000-S	0.3~6	20	1	17	2.8	1.5	±10°	±1.0dB	SMA	220*94*12
FS6PD20-600-6000-S	0.6~6	20	1	18	2.2	1.3	±8°	±0.8dB	SMA	115*85*10
FS6PD30-800-2500-S	0.8~2.5	30	1	18	1.2	1.5	±5°	±0.6dB	SMA	92*86*10
FS6PD10-1000-18000-S	1~18	10	1	15	2.2	1.9	±8°	±0.8dB	SMA	98*82*10
FS6PD500-1500-2500-N	1.5~2.5	500	/	20	0.2	1.2	±1°	±0.1dB	N	210*150*50
FS6PD20-2000-2500-N	2~2.5	20	1	20	1	1.35	±4°	±0.4dB	N	142*70*20
FS6PD30-2000-5000-N	2~5	30	1	17	2	1.6	±8°	±0.7dB	N	149.6*60*20

8-Way Power Dividers & Combiners

Model	Freq. (GHz)	FWD Power	REV Power	Iso. (dB.min)	IL. (dB.max)	VSWR (max)	PhBal. (max)	AmpBal. (max)	Conn.	Dimension (mm)
FS8PD2-0-6000-S	DC~6	2	/	18	9	1.5		±2dB	SMA	43.2*42.5*16
FS8PDR2-0-18000-S	DC~18	0.2	0.2		6	1.9	±12°	±1dB	SMA	101.6*38.1*10.16
FS8PD10-80-1000-S	0.08~1	10	1	18	3	1.35	±4°	±0.4dB	SMA	234*160*10
FS8PD10-80-6000-S	0.08~6	10	1	6	6.8	1.9	±5°	±0.4dB	SMA	330*120*12
FS8PD30-200-2700-S	0.2~2.7	30	1	18	5	1.6	±5°	±0.5dB	SMA	198*220*12
FS8PD20-300-6000-S	0.3~6	20	1	20	4	1.4	±5°	±0.3dB	SMA	176*120*12
FS8PD20-300-6000-N	0.3~6	20	1	15	3	1.7	±4°	±0.3dB	SMA	128*116*10
FS8PD150-400-2000-N	0.4~2	150	10	17	2	1.55	±5°	±0.4dB	N	232*148*20
FS8PD150-400-2000-S	0.4~2	150	10	16	2	1.62	±5°	±0.4dB	SMA	210*143*12

FS8PD30-400-4000-N	0.4~4	30	2	20	2.4	1.35	±4°	±0.4dB	N	200*100*20
FS8PC4-420-450-S	0.42~0.45	4	32	20	1.2	1.3	±3°	±0.3dB	SMA	139*113*15
FS8PC33-420-450-N	0.42~0.45	33	150	20	1.2	1.35	±3°	±0.3dB	N	264*98*20
FS8PD30-500-6000-S	0.5~6	30	2	18	2.8	1.18	±5°	±0.4dB	SMA	115*113*12
FS8PD30-500-6000-N	0.5~6	30	2	18	3.2	1.4	±5°	±0.4dB	N	200*120*20
FS8PD30-500-18000-S	0.5~18	30	1	16	8	1.9	±10°	±1.0dB	SMA	151.55*180*16.4
FS8PD5-500-40000-K	0.5~40	5	1	7	11	2.2	±18°	±1.5dB	2.92mm	101.6*228.6*10
FS8PD20-698-3000-S	0.698~3	20	1	20	1.2	1.25	±4°	±0.3dB	SMA	116*86*14
FS8PD160-1000-2000-N	1~2	160	10	19	1	1.5	±5°	±0.5dB	N	204*176.2*20
FS8PD30-2000-5000-N	2~5	30	1	16	2	1.6	±8°	±0.8dB	N	197.8*62*20
FS8PD150-2000-6000-N	2~6	150	10	16	2	1.8	±5°	±0.4dB	N	220*71*20
FS8PD30-2000-8000-S	2~8	30	2	18	1.5	1.35	±5°	±0.4dB	SMA	108*63*10
FS8PD20-2000-18000-S	2~18	20	1	16	2.8	1.8	±8°	±0.6dB	SMA	100*106.2*10
FS8PD30-2500-8400-S	2.5~8.4	30	1	18	1.8	1.4	±5°	±0.5dB	SMA	108*63*10
FS8PD10-6000-12000-S	6~12	10	1	18	1.2	1.45	±4°	±0.3dB	SMA	106*64*10
FS8PD20-6000-18000-S	6~18	20	1	16	1.8	1.5	±6°	±0.6dB	SMA	95.25*45*10
FS8PD20-8000-12000-S	8~12	20	1	20	1.1	1.5	±6°	±0.4dB	SMA	95.25*45*10
FS8PD20-8000-18000-S	8~18	20	1	16	1.8	1.6	±5°	±0.5dB	SMA	95.25*45*10
FS8PD20-8000-18000-S	8~18	20	1	18	1.5	1.7	±8°	±0.5dB	SMA	101.5*57.5*10
FS8PD20-10000-40000-K	10~40	20	1	16	2.5	1.8	±8°	±0.5dB	2.92mm	104*40*10
FS8PD20-12000-18000-S	12~18	20	1	15	1.8	1.6	±8°	±0.5dB	SMA	95.25*45*10
FS8PD20-18000-26500-S	18~26.5	20	0.5	15	3	1.8	±6°	±0.5dB	SMA	101.6*38*10
FS8PD20-18000-32000-K	18~32	20	1	16	1.9	1.6	±6°	±0.5dB	2.92mm	104*40*10
FS8PD20-18000-40000-K	18~40	20	1	15	2.5	1.7	±6°	±0.6dB	2.92mm	104*40*10
FS8PD20-24000-30000-K	24~30	20	1	16	2.9	1.6	±8°	±0.5dB	2.92mm	101.6*38*10

16-Way Power Dividers & Combiners

Model	Freq. (GHz)	FWD Power	REV Power	Iso. (dB.min)	IL (dB.max)	VSWR (max)	PhBal. (max)	AmpBal. (max)	Conn.	Dimension (mm)
FS16RC1K-400-500-N	0.4~0.5	1000	/	/	/	1.3	±5°	±0.2dB	N	380*90*90
FS16PD30-500-18000-S	0.5~18	30	1	16	12.8	2	±12°	±1.5dB	SMA	314.35*200*18.9
FS16PD30-2000-4000-S	2~4	30	1	18	1.5	1.4	±5°	±0.5dB	SMA	212*96*10
FS16PD30-2000-8000-S	2~8	30	1	18	2.6	1.6	±8°	±0.6dB	SMA	212*96*10
FS16PD10-2000-18000-S	2~18	10	1	15	3.8	1.8	±12°	±0.8dB	SMA	209.1*122.6*12.7
FS16PD30-6000-18000-S	6~18	30	1	16	2.7	1.8	±10°	±0.8dB	SMA	191.25*64*12.7
FS16PD20-6000-26000-S	6~26	20	1	15	2.5	2	±12°	±1.0dB	SMA	212*67*10
FS16PD20-8000-12000-S	8~12	20	1	20	1.8	1.5	±3°	±0.5dB	SMA	191.25*64*12.7
FS16PD20-12000-18000-S	12~18	20	1	15	3	1.6	±10°	±0.8dB	SMA	191.25*64*12.7
FS16PD30-14000-18000-S	14~18	30	1	15	3	1.6	±8°	±0.8dB	SMA	191.25*64*12.7
FS16PD20-18000-26500-K	18~26.5	20	0.5	14	6	2.2	±15°	±1.5dB	2.92mm	203.2*38.1*10