Power Dividers/Combiners

Power Dividers/Combiners...1W-200W DC-18GHz

Model Number	Average Power(W)	Frequency Range(GHz)	Isolation (dB)	Max VSWR	Ins. Loss (dB)	Connector Type	Page No	Pictures
SHX-GF2-2-18	1	DC-18	/	≤1.35	5.8-7.25	SMA(F,F) SMA(M,F)	13-3	
SHX-GF2-2-18N	1	DC-18	/	≤1.35	5.8-7.5	N(M,F,F)	13-4	
SHX-GF2	2,5,10	DC-2.5	/	≤1.30	6±0.75	N,SMA, BNC	13-5	
SHX-GF3-2	2	DC-2	/	≤1.30	9.5±1.5	N,SMA,F	13-6	
SHX-GF4-2	2	DC-2	/	≤1.30	12±1.5	N,SMA,F	13-7	
SHX-GF5-2	2	DC-2	/	≤1.30	14±1.0	N,SMA,F	13-8	
SHX-GF4-2-18S	2	DC-18	/	≤1.70	11.5-15.0	SMA(F)	13-9	
SHX-GF2-100	50	0.8-2.5	≥20	≤1.25	≤3.4	N(F),SMA(F)	13-10	
SHX-GF3-100	50	0.8-2.5	≥20	≤1.30	≤5.5	N(F),SMA(F)	13-11	
SHX-GF4-100	50	0.8-2.5	≥20	≤1.30	≤6.6	N(F),SMA(F)	13-12	
TGF-50	50	DC-3	/	1.2-1.6	9.5+1/GHz	N(F,F)	13-13	
SHX-XPD	50-200	0.03-6	≥15	≤1.60	≤11.5	SMA,N	13-14	

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Revision Date: 05-30-14

Power Dividers/Combiners

Power Dividers/Combiners...20W 0.3-40GHz

Model Number	Average Power(W)	Frequency Range(GHz)	Isolation (dB)	Max VSWR	Ins. Loss (dB)	Connector Type	Page No	Pictures
2Way High Frequency Power Divider	20	0.3-40	≤17	1.40-1.60	⩽3.5	SMA	13-15	
3Way High Frequency Power Divider	20	0.5-40	≤18	1.45-1.80	⩽2.3	SMA	13-16	
4Way High Frequency Power Divider	20	0.3-40	≤16	1.50-1.70	⩽11.0	SMA	13-17	
6Way High Frequency Power Divider	20	0.8-40	≤16	1.60-1.70	⩽4.0	SMA	13-18	
8Way High Frequency Power Divider	20	0.5-40	≤16	1.50-1.75	⩽10.4	SMA	13-19	
16Way High Frequency Power Divider	20	6-40	≤16	1.60-1.80	⩽5.1	SMA	13-20	
SHX-0.8/3.0 2-16Way Power Divider	20	0.8-18	≥15	1.30-1.80	⩽16.0	SMA,N	13-21	

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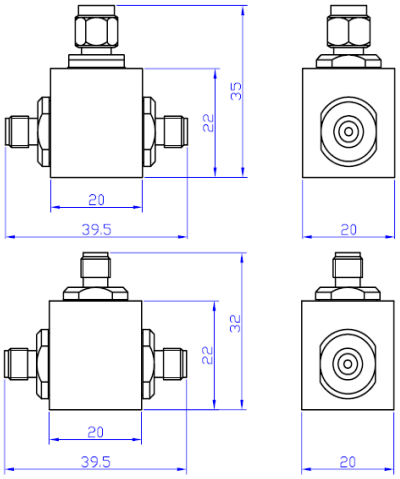
Model SHX-GF2-2-18 DC-18GHz 1 Watts



SHX-GF2-X serial two-way resistive power splitters are used in broad-band transmission and reflect coefficient test by separating signals in order to test and accurately distribute one signal to one couple of antennas, with lab measurements the measuring signals can be traced to reference signals, providing an output signal whose impedance is essentially matched to 50Ω in a leveling loop. The features include: small dimensions and light, high power resistance and high temperature. Two outputs are equal and their insertion-losses are the same as 6dB in whole frequency range.

MECHANICAL SPECIFICATIONS

Connectors	Male Pin	Female Pin	Housing	Temp Range	Dimensions	Weight
Brass Nickel Plated	Brass Gold Plated	Beryllium Copper Gold Plated	Brass Nickel Plated	-55°C~+125°C	SMA(F,F):40×20×32mm SMA(M,F):40×20×35mm	85g

RoHS Complient: Yes

ELECTRICAL SPECIFICATIONS

Model Number	Frequency Range(GHz)	Max VSWR	Insertion Loss(dB)	Maximum Extent Difference Between J2 & J3
SHX-GF2-2-18	DC-4	1.25	6±0.2	0.2
	4-10	1.25	6±0.4	0.4
	10-18	1.35	$6^{+1.25}_{-0.5}$	0.4

NOMINAL IMPEDANCE: 50Ω
AVERAGE POWER: 1W
PEAK POWER: 1KW (5μs pulse width with 3% duty cycle)
PORT NUMBER: 3 ports, input can interchange output
PHASIC DIFFERENCE: 5°(maximum phasic difference between any output in J1, J2&J3)
POWER CPEFFICIENT: <0.005dB/dB/W
TEMPERATURE CPEFFICIENT: <0.0004dB/dB/°

Notes:

1. Dimensions Tolerance ±2%
2. Custom design available.

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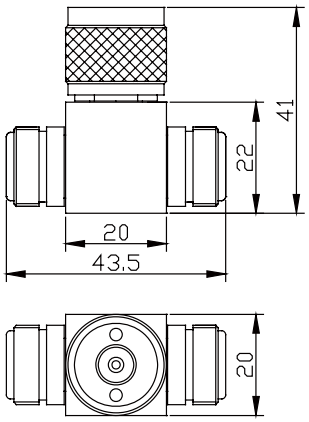
Model SHX-GF2-2-18N DC-18GHz 1 Watts



SHX-GF2-X serial two-way resistive power splitters are used in broad-band transmission and reflect coefficient test by separating signals in order to test and accurately distribute one signal to one couple of antennas, with lab measurements the measuring signals can be traced to reference signals, providing an output signal whose impedance is essentially matched to 50Ω in a leveling loop. The features include: small dimensions and light, high power resistance and high temperature. Two outputs are equal and their insertion-losses are the same as 6dB in whole frequency range.

MECHANICAL SPECIFICATIONS

Connectors	Male Pin	Female Pin	Housing	Temp Range	Dimensions	Weight
Brass Nickel Plated	Brass Gold Plated	Beryllium Copper Gold Plated	Brass Nickel Plated	-55°C~+125°C	43.5×20×41mm	120g

RoHS Complient: Yes

ELECTRICAL SPECIFICATIONS

Model Number	Frequency Range(GHz)	Max VSWR	Insertion Loss(dB)	Maximum Extent Difference Between J2 & J3
SHX-GF2-2-18N	DC-4	1.25	6±0.2	0.2
	4-10	1.35	6±0.4	0.4
	10-18	1.40	$6^{+1.5}_{-0.5}$	0.4

NOMINAL IMPEDANCE: 50Ω
AVERAGE POWER: 1W
PEAK POWER: 1KW (5μs pulse width with 3% duty cycle)
PORT NUMBER: 3 ports, input can interchange output
PHASIC DIFFERENCE: 5°(maximum phasic difference between any output in J1, J2&J3)
POWER CPEFFICIENT: <0.005dB/dB/W
TEMPERATURE CPEFFICIENT: <0.0004dB/dB/°

Notes:

1. Dimensions Tolerance ±2%
2. Custom design available.

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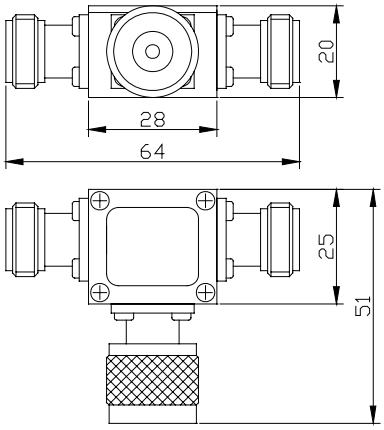
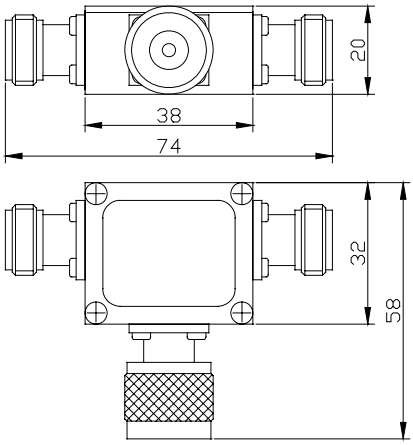
Revision Date: 05-30-14

Model SHX-GF2 DC-2.5GHz 2,5,10 Watts



SHX-GF2-2(SHX-GF2-5)



SHX-GF2-10

SHX-GF2-X serial two-way resistive power splitters are used in broad-band transmission and reflect coefficient test by separating signals in order to test and accurately distribute one signal to one couple of antennas, with lab measurements the measuring signals can be traced to reference signals, providing an output signal whose impedance is essentially matched to 50Ω in a leveling loop. The features include: small dimensions and light, high power resistance and high temperature. Two outputs are equal and their insertion-losses are the same as 6dB in whole frequency range.

MECHANICAL SPECIFICATIONS

Connectors	Male Pin	Female Pin	Housing	Temp Range	Dimensions	Weight
Brass Nickel Plated	Brass Gold Plated	Beryllium Copper Gold Plated	Aluminum, Anodic Oxidation	Operating: -10°C~+50°C Non-operating: -40°C~+70°C	2,5W:64×51×20mm 10W:74×58×20mm	2,5W:120g 10W:160g

RoHS Complient: Yes

ELECTRICAL SPECIFICATIONS

Model Number	Frequency Range(GHz)	Max VSWR	Insertion Loss(dB)
SHX-GF2-2	DC-2.5	1.3	6±0.75
SHX-GF2-5	DC-1.5	1.25	6±0.5
SHX-GF2-10	DC-1	1.2	6±0.5

NOMINAL IMPEDANCE: 50Ω
AVERAGE POWER: 2W, 5W, 10W
CONNECTOR TYPE: N, SMA, BNC

Notes:

1. Dimensions Tolerance ±2%
2. Dimensions and specifications refer to connector type N unless otherwise specified

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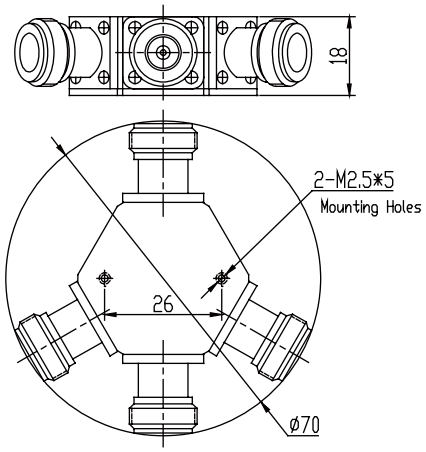
Revision Date: 05-30-14

Model SHX-GF3-2 DC-2GHz 2 Watts



Power splitters can divide one signal into two or N way equal or non-equal energy, in reverse, they are also used as combiners by combining multiple signal into one.

SHX-GF3-2 resistive power splitter is used in broad-band transmission and reflect coefficient test by separating signals in order to test and accurately distribute one signal to antennas. The features include: small dimensions and light, high power resistance and high temperature.

MECHANICAL SPECIFICATIONS

Connectors	Female Pin	Housing	Temp Range	Dimensions	Weight
Brass Nickel Plated	Beryllium Copper Gold Plated	Aluminum, Anodic Oxidation	Operating: -10°C~+50°C Non-operating: -40°C~+70°C	Ø70×18mm	110g

RoHS Complient: Yes

ELECTRICAL SPECIFICATIONS

Model Number	Frequency Range(GHz)	Max VSWR	Insertion Loss(dB)
SHX-GF3-2	DC-1	1.2	9.5±0.5
	1-2	1.3	9.5±1.5

NOMINAL IMPEDANCE: 50Ω, 75Ω
AVERAGE POWER: 2W
CONNECTOR TYPE: N(F), SMA(F), F(F)

Notes:

1. Dimensions Tolerance ±2%
2. Dimensions and specifications refer to connector type N unless otherwise specified

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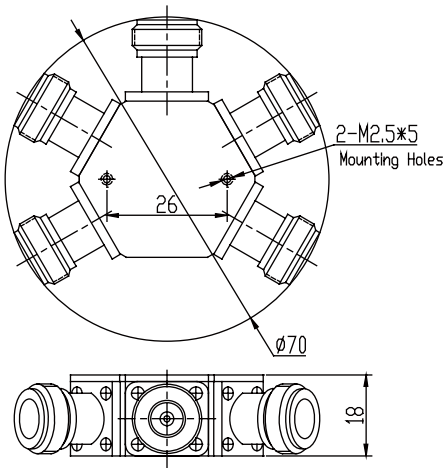
Model SHX-GF4-2 DC-2GHz 2 Watts



Power splitters can divide one signal into two or N way equal or non-equal energy, in reverse, they are also used as combiners by combining multiple signal into one.

SHX-GF4-2 resistive power splitter is used in broad-band transmission and reflect coefficient test by separating signals in order to test and accurately distribute one signal to antennas. The features include: small dimensions and light, high power resistance and high temperature.

MECHANICAL SPECIFICATIONS

Connectors	Female Pin	Housing	Temp Range	Dimensions	Weight
Brass Nickel Plated	Beryllium Copper Gold Plated	Aluminum, Anodic Oxidation	Operating: -10°C~+50°C Non-operating: -40°C~+70°C	Ø70×18mm	125g

RoHS Complient: Yes

ELECTRICAL SPECIFICATIONS

Model Number	Frequency Range(GHz)	Max VSWR	Insertion Loss(dB)
SHX-GF4-2	DC-1	1.2	12±0.5
	1-2	1.3	12±1.5

NOMINAL IMPEDANCE: 50Ω, 75Ω
AVERAGE POWER: 2W
CONNECTOR TYPE: N(F), SMA(F), F(F)

Notes:

1. Dimensions Tolerance ±2%
2. Dimensions and specifications refer to connector type N unless otherwise specified

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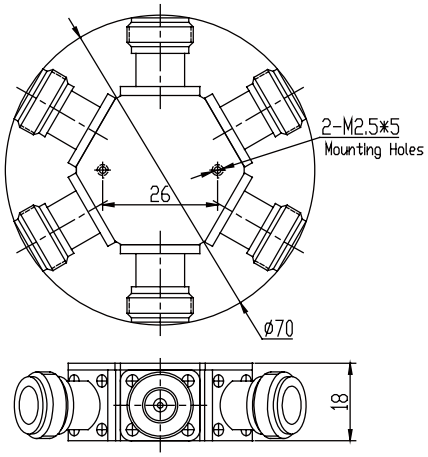
Revision Date: 05-30-14

Model SHX-GF5-2 DC-2GHz 2 Watts



Power splitters can divide one signal into two or N way equal or non-equal energy, in reverse, they are also used as combiners by combining multiple signal into one.

SHX-GF5-2 resistive power splitter is used in broad-band transmission and reflect coefficient test by separating signals in order to test and accurately distribute one signal to antennas. The features include: small dimensions and light, high power resistance and high temperature.

MECHANICAL SPECIFICATIONS

Connectors	Female Pin	Housing	Temp Range	Dimensions	Weight
Brass Nickel Plated	Beryllium Copper Gold Plated	Aluminum, Anodic Oxidation	Operating: -10°C~+50°C Non-operating: -40°C~+70°C	Ø70×18mm	140g

RoHS Complient: Yes

ELECTRICAL SPECIFICATIONS

Model Number	Frequency Range(GHz)	Max VSWR	Insertion Loss(dB)
SHX-GF5-2	DC-1	1.2	14±0.5
	1-2	1.3	14±1.5

NOMINAL IMPEDANCE: 50Ω, 75Ω
AVERAGE POWER: 2W
CONNECTOR TYPE: N(F), SMA(F), F(F)

Notes:

1. Dimensions Tolerance ±2%
2. Dimensions and specifications refer to connector type N unless otherwise specified

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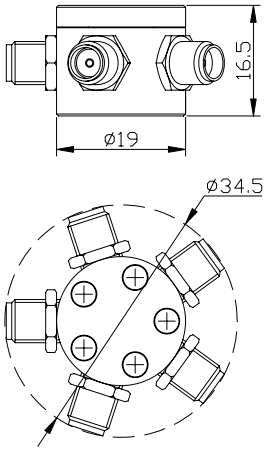
Revision Date: 05-30-14

Model SHX-GF4-2-18S DC-18GHz 2 Watts



Power splitters can divide one signal into two or N way equal or non-equal energy, in reverse, they are also used as combiners by combining multiple signal into one.

SHX-GF4-2-18 resistive power splitter is used in broad-band transmission and reflect coefficient test by separating signals in order to test and accurately distribute one signal to antennas. The features include: small dimensions and light, high power resistance and high temperature.

MECHANICAL SPECIFICATIONS

Connectors	Female Pin	Housing	Temp Range	Dimensions	Weight
Brass Gold Plated	Beryllium Copper Gold Plated	Brass Gold Plated	Operating: -10°C~+50°C Non-operating: -40°C~+70°C	Ø34.5×16.5mm	40g

RoHS Compliant: Yes

ELECTRICAL SPECIFICATIONS

Model Number	Frequency Range(GHz)	Max VSWR	Insertion Loss(dB)
SHX-GF4-2-6S	DC-6	1.35	$12^{+0.75}_{-0.5}$
SHX-GF4-2-12.4S	6-12.4	1.45	$12^{+2}_{-0.5}$
SHX-GF4-2-18S	12.4-18	1.70	$12^{+3}_{-0.5}$

NOMINAL IMPEDANCE: 50Ω
AVERAGE POWER: 2W
CONNECTOR TYPE: SMA (F)

Notes:

1. Dimensions Tolerance ±2%

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Model SHX-GF2-100 0.8-2.5GHz 50 Watts

SHX-GF2-100 power splitters are used in broad-band transmission and reflect coefficient test by separating signals in order to test and accurately distribute one signal to antennas. The features include: small dimensions and light, high power resistance and high temperature.

MECHANICAL SPECIFICATIONS	
Connectors	Brass Nickel Plated
Male Pin	Brass Gold Plated
Female Pin	Beryllium Copper Gold Plated
Housing	Aluminum, Black Anodize
Temp Range	-30° C ~ +60° C
Dimensions	78×38×18mm
Weight	A:120g B:90g

RoHS Complient: Yes

ELECTRICAL SPECIFICATIONS

Model Number	Frequency Range(GHz)	Insertion Loss(dB)	Mainline VSWR	Isolation(dB)	Connector Type
SHX-GF2-100A	0.8-2.5	≤1.25	≤3.4	≥20	N(F)
SHX-GF2-100B					SMA(F)

NOMINAL IMPEDANCE: 50Ω

AVERAGE POWER: 50W

Notes:

1. Dimensions Tolerance ±2%
2. Custom designs available for other special attenuation value & accuracy.

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Revision Date: 05-30-14

Model SHX-GF3-100 0.8-2.5GHz 50 Watts

SHX-GF3-100 power splitters are used in broad-band transmission and reflect coefficient test by separating signals in order to test and accurately distribute one signal to antennas. The features include: small dimensions and light, high power resistance and high temperature.

MECHANICAL SPECIFICATIONS

Connectors	Female Pin	Housing	Temp Range	Dimensions	Weight
Brass Nickel Plated	Beryllium Copper Gold Plated	Aluminum, Black Anodize	-30°C~+60°C	72×72×23mm	A:150g B:120g

RoHS Complient: Yes

ELECTRICAL SPECIFICATIONS

Model Number	Frequency Range(GHz)	Mainline VSWR	Insertion Loss(dB)	Isolation (dB)	Connector Type
SHX-GF3-100A	0.8-2.5	≤1.30	≤5.4	≥20	N(F)
SHX-GF3-100B					SMA(F)

NOMINAL IMPEDANCE: 50Ω
AVERAGE POWER: 50W

Notes:
1. Dimensions Tolerance ±2%

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Model SHX-GF4-100 0.8-2.5GHz 50 Watts

SHX-GF4-100 power splitters are used in broad-band transmission and reflect coefficient test by separating signals in order to test and accurately distribute one signal to antennas. The features include: small dimensions and light, high power resistance and high temperature.

MECHANICAL SPECIFICATIONS

Connectors	Female Pin	Housing	Temp Range	Dimensions	Weight
Brass Nickel Plated	Beryllium Copper Gold Plated	Aluminum, Black Anodize	-30°C~+60°C	104×74×19mm	A:230g B:200g

RoHS Complient: Yes

ELECTRICAL SPECIFICATIONS

Model Number	Frequency Range(GHz)	Mainline VSWR	Insertion Loss(dB)	Isolation (dB)	Connector Type
SHX-GF4-100A	0.8-2.5	≤1.30	≤6.6	≥20	N(F)
SHX-GF4-100B					SMA(F)

NOMINAL IMPEDANCE: 50Ω
AVERAGE POWER: 50W

Notes:

1. Dimensions Tolerance ±2%

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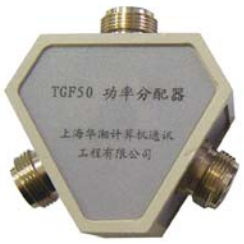
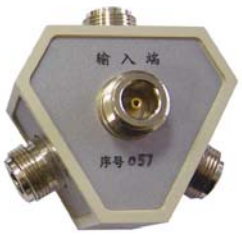
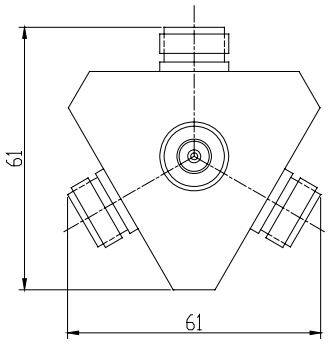
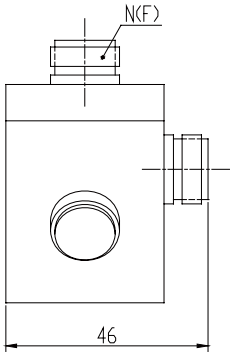
Revision Date: 05-30-14

Model TGF-50 DC-3GHz 50 Watts









Power splitters can divide one signal into two or N way equal or non-equal energy, in reverse, they are also used as combiners by combining multiple signal into one.

TGF3-50 three-way power splitters are used for transmission measurement by dividing the input power to three evenly output power.

MECHANICAL SPECIFICATIONS

Connectors	Female Pin	Housing	Temp Range	Dimensions	Weight
Brass Nickel Plated	Beryllium Copper Gold Plated	Aluminum	Operating: -10°C~+50°C Non-operating: -40°C~+70°C	46×61×61mm	265g

RoHS Complient: Yes

ELECTRICAL SPECIFICATIONS

Model Number	Frequency Range(GHz)	Nominal Insertion Loss(dB)	Equivalent Source VSWR	Input Port VSWR	Max. Operation Level(dBm)
TGF3-50	DC-1.3	9.5+1/GHz	≤1.10	≤1.2	+20(0.1W)
	DC-3	9.5+1/GHz	≤1.15	≤1.6	

NOMINAL IMPEDANCE: 50Ω
AVERAGE POWER: 50W
CONNECTOR TYPE: N (F)

Notes:

1. Dimensions Tolerance ±2%

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Revision Date: 05-30-14

Model SHX-XPD Power Dividers

型号 Model Number	频率范围 Frequency Range (GHz)	平均功率 Average Power (W)	幅度平衡度 Amplitude Balance(dB)	相位平衡度 Phase Balance (°)	插入损耗 Insertion Loss(dB)	隔离度 Isolation (dB)	驻波比 Mainline VSWR	连接器形式 Connector Type	外形尺寸 Dimensions (mm)	重量 Weight (g)
SHX2PD-30/90MHz	0.03-0.09	200	≤±0.5	≤±5°	≤3.5	≥15	≤1.30	N,SMA	110×96×71	650
SHX2PD0220C	0.2-2.0	50	≤±0.4	≤±3°	≤4.2	≥17	≤1.50	SMA(K)	80×42×13	110
SHX2PD0324C-S	0.3-2.4	50	≤±0.4	≤±3°	≤4.5	≥17	≤1.50	SMA(K)	70×38×13	150
SHX2PD0324C-N	0.3-2.4	50	≤±0.4	≤±3°	≤4.5	≥17	≤1.50	N(K)	87×40×19	200
SHX4PD0324C-S	0.3-2.4	50	≤±0.5	≤±5°	≤8.0	≥17	≤1.50	SMA(K)	99×80×14	450
SHX2PD336344C	0.336-0.344	50	≤±0.4	≤±3°	≤3.4	≥30	≤1.20(Forward) ≤1.20(Reverse)	N,SMA	128×116×19	350
SHX-HL2-2	0.5-2.0	80	/	/	≤3.3	≥20	≤1.3	N(K)	110×63×28	300
SHX-HL-500/3000	0.5-3.0	50	≤±0.5	≤±5°	≤3.8	≥20	≤1.3	N(K)	106×50×18	165
SHX2PD0627C	0.6-2.7	50	≤±0.4	≤±3°	≤3.7	≥20	≤1.30	SMA(K)	80×42×13	110
SHX4PD0627C	0.6-2.7	50	≤±0.4	≤±3°	≤7.0	≥20	≤1.30	SMA(K)	129×84×13	110
SHX-GF-16-20C	0.6-2.8	50	≤±1.5	≤±3°	≤15	≥20	≤1.60(Forward) ≤1.30(Reverse)	N,SMA	254×138×15.8	1000
SHX2PD0630C	0.6-3.0	50	≤±0.4	≤±3°	≤3.8	≥20	≤1.3(Forward) ≤1.3(Reverse)	N,SMA	108×48×19	160
SHX4PD0630C	0.6-3.0	50	≤±0.5	≤±3°	≤7.4	≥20	≤1.35(Forward) ≤1.20(Reverse)	N,SMA	163×92×19	420
SHX8PD0630C	0.6-3.0	50	≤±0.5	/	≤11	≥18	≤1.50(Forward) ≤1.30(Reverse)	N,SMA	184×136×18.4	800
SHX2PD0639C	0.6-3.9	50	≤±0.4	≤±3°	≤3.9	≥23	≤1.25(Forward)	SMA(K)	89×57×14	160
SHX4PD0639C	0.6-3.9	50	≤±0.5	/	≤7.5	≥22	≤1.35	SMA(K)	130×94×14	345
SHX8PD0639S	0.6-3.9	50	≤±0.8	/	≤11.5	≥18	≤1.50	SMA(K)	130×134×13	750
SHX-GF8-4	0.6-3.9	50	≤±0.8	/	≤11.5	≥18	≤1.50	N(K)	176×136×19	950
SHX8PD0825C	0.8-2.5	50	≤±0.5	≤±3°	≤11	≥20	≤1.60(Forward) ≤1.35(Reverse)	SMA(K)	192×100×18	110
SHX2PD1739C	1.7-3.9	50	≤±0.4	≤±3°	≤3.8	≥20	≤1.30	SMA(K)	66×38×13	88
SHX4PD1739C	1.7-3.9	50	≤±0.4	≤±3°	≤7.0	≥20	≤1.40(Forward) ≤1.30(Reverse)	SMA(K)	100×80×13	88
SHX2PD1760C	1.7-6.0	50	≤±0.5	≤±5°	≤4.0	≥20	≤1.40	SMA(K)	65×38×13	85
SHX4PD1760C	1.7-6.0	50	≤±0.5	/	≤7.5	≥18	≤1.50	SMA(K)	99×80×13	195
SHX8PD2030C	2-3	50	≤±0.5	≤±3°	≤10.5	≥20	≤1.25(Forward) ≤1.25(Reverse)	N,SMA	182×97×18.4	600

NOMINAL IMPEDANCE: 50Ω

TEMPERATURE RANGE: Operating: -30°C~+60°C

Non-operating: -40°C~+70°C

Notes:

1. Dimensions Tolerance ±2%

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Model 2Way High Frequency Power Dividers

Model Number	Frequency Range(GHz)	Input VSWR	Insertion Loss(dB)	Amplitude Balance(dB)	Phase Balance(°)	Average Power(W)	Isolation (dB)	Dimension L×W×H(mm)
SHX202-003180	0.3-18	1.5	≤2.8	≤0.4	±5°	20	≤17(0.3-1) ≤20(1-18)	292.1×44.5×12.7
SHX202-004265	0.4-26.5	1.5	≤1.9	≤0.3	±4°	20	≤16(0.4-1) ≤20(1-26.5)	149.1×26.4×12.7
SHX202-005080	0.5-8	1.4	≤1.0	≤0.2	±3°	20	≤17(0.5-1) ≤20(1-8)	149.1×26.4×12.7
SHX202-005180	0.5-18	1.4	≤1.5	≤0.3	±4°	20	≤17(0.5-1) ≤20(1-18)	149.1×26.4×12.7
SHX202-005265	0.5-26.5	1.5	≤1.9	≤0.4	±4°	20	≤17(0.5-1) ≤20(1-26.5)	149.1×26.4×12.7
SHX202-005400	0.5-40	1.6	≤3.5	≤0.5	±6°	20	≤17(0.5-1) ≤20(1-40)	149.1×26.4×12.7
SHX202-010180	1-18	1.4	≤1.2	≤0.3	±3°	20	≤17(1-1.5) ≤20(1.5-18)	95.3×26.4×12.7
SHX202-010265	1-26.5	1.5	≤1.6	≤0.3	±4°	20	≤17(1-1.5) ≤20(1.5-26.5)	95.3×26.4×12.7
SHX202-010400	1-40	1.6	≤3.0	≤0.5	±6°	20	≤17(1-1.5) ≤20(1.5-40)	95.3×26.4×12.7
SHX202-020180	2-18	1.4	≤1.0	≤0.3	±3°	20	≤18(2-2.5) ≤20(2.5-18)	45.5×26.4×12.7
SHX202-020265	2-26.5	1.6	≤1.2	≤0.3	±4°	20	≤18(2-2.5) ≤20(2.5-26.5)	45.5×26.4×12.7
SHX202-020400	2-40	1.6	≤1.8	≤0.3	±4°	20	≤18(2-2.5) ≤20(2.5-40)	45.5×26.4×12.7
SHX202-060180	6-18	1.4	≤0.8	≤0.2	±3°	20	≤18	29.2×26.9×12.7
SHX202-060265	6-26.5	1.5	≤1.2	≤0.3	±4°	20	≤18	29.2×26.9×12.7
SHX202-060400	6-40	1.6	≤1.5	≤0.3	±5°	20	≤18	29.2×26.9×12.7
SHX202-100265	10-26.5	1.5	≤1.2	≤0.3	±4°	20	≤20	29.2×26.9×12.7
SHX202-100400	10-40	1.6	≤1.5	≤0.3	±5°	20	≤20	29.2×26.9×12.7
SHX202-180265	18-26.5	1.5	≤1.2	≤0.3	±3°	20	≤20	22×26.9×12.7
SHX202-180400	18-40	1.6	≤1.5	≤0.3	±4°	20	≤20	22×26.9×12.7

NOMINAL IMPEDANCE: 50Ω

Notes:

1. Dimensions Tolerance ±2%

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Model 3Way High Frequency Power Dividers

Model Number	Frequency Range(GHz)	Input VSWR	Insertion Loss(dB)	Amplitude Balance(dB)	Phase Balance(°)	Average Power(W)	Isolation (dB)	Dimension L×W×H(mm)
SHX203-005180	0.5-18	1.45	≤2.3	≤±0.5	±5°	20	≤18	250.4×44.5×12.7
SHX203-180265	18-26.5	1.6	≤1.4	≤±0.5	±5°	20	≤20	34.3×43.2×12.7
SHX203-180400	18-40	1.8	≤2.1	≤±0.7	±8°	20	≤20	34.3×43.2×12.7

NOMINAL IMPEDANCE: 50Ω

Notes:

1. Dimensions Tolerance ±2%

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Revision Date: 05-30-14

Model 4Way High Frequency Power Dividers

Model Number	Frequency Range(GHz)	Input VSWR	Insertion Loss(dB)	Amplitude Balance(dB)	Phase Balance(°)	Average Power(W)	Isolation (dB)	Dimension L×W×H(mm)
SHX204-003180	0.3-18	1.5	≤7.5	≤±0.4	±4°	20	≤18	335.3×71.1×12.7
SHX204-003265	0.3-26.5	1.5	≤11	≤±0.5	±6°	20	≤18	335.3×71.1×12.7
SHX204-004080	0.4-8	1.5	≤2.0	≤±0.4	±4°	20	≤16(0.4-1) ≤20(1-8)	158.5×75×12.7
SHX204-004180	0.4-18	1.6	≤4.0	≤±0.5	±6°	20	≤16(0.4-1) ≤20(1-18)	158.5×75×12.7
SHX204-004265	0.4-26.5	1.65	≤5.4	≤±0.5	±7°	20	≤16(0.4-1) ≤20(1-26.5)	158.5×75×12.7
SHX204-005080	0.5-8	1.5	≤2.0	≤±0.4	±4°	20	≤16(0.5-1) ≤20(1-8)	158.5x75x12.7
SHX205-005180	0.5-18	1.6	≤3.8	≤±0.3	±5°	20	≤16(0.5-1) ≤20(1-18)	158.5×75×12.7
SHX204-005265	0.5-26.5	1.6	≤5.2	≤±0.4	±6°	20	≤16(0.5-1) ≤20(1-26.5)	158.5×75×12.7
SHX204-005400	0.5-40	1.7	≤7.5	≤±0.5	±8°	20	≤16(0.5-1) ≤20(1-40)	158.5×75×12.7
SHX204-010180	1-18	1.5	≤2.5	≤±0.4	±5°	20	≤17	132.1×51.8×12.7
SHX204-010265	1-26.5	1.6	≤2.8	≤±0.5	±6°	20	≤17	132.1×51.8×12.7
SHX204-010400	1-40	1.7	≤5.0	≤±0.6	±7°	20	≤17	132.1×51.8×12.7
SHX244-020180	2-18	1.5	≤2.0	≤±0.5	±6°	20	≤16	78.7×51.6×12.7
SHX204-020180	2-18	1.5	≤2.4	≤±0.3	±4°	20	≤18	78.7×51.6×12.7
SHX204-020265	2-26.5	1.6	≤2.7	≤±0.4	±5°	20	≤18	78.7×51.6×12.7
SHX204-020400	2-40	1.7	≤4.5	≤±0.5	±7°	20	≤18	78.7×51.6×12.7
SHX204-060265	6-26.5	1.6	≤1.9	≤±0.3	±3°	20	≤16	38.1×70×12.7
SHX204-060400	6-40	1.65	≤2.5	≤±0.4	±5°	20	≤16	38.1×70×12.7
SHX204-100265	10-26.5	1.6	≤1.9	≤±0.3	±3°	20	≤18	38.1×70×12.7
SHX204-100400	10-40	1.65	≤2.5	≤±0.4	±5°	20	≤18	38.1×70×12.7
SHX204-180265	18-26.5	1.6	≤1.7	≤±0.3	±3°	20	≤19	38.1×52.3×12.7
SHX204-180400	18-40	1.7	≤2.3	≤±0.4	±5°	20	≤18	38.1×52.3×12.7

NOMINAL IMPEDANCE: 50Ω

Notes:

1. Dimensions Tolerance ±2%

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Model 6Way High Frequency Power Dividers

Model Number	Frequency Range(GHz)	Input VSWR	Insertion Loss(dB)	Amplitude Balance(dB)	Phase Balance(°)	Average Power(W)	Isolation (dB)	Dimension L×W×H(mm)
SHX206-008180	0.8-18	1.7	≤4.0	≤±0.8	±8°	20	≤16	165.1×77.5×12.7
SHX206-180265	18-26.5	1.6	≤1.6	≤±0.4	±5°	20	≤17	57.2×88.9×12.7
SHX206-180400	18-40	1.7	≤2.1	≤±0.5	±6°	20	≤17	57.2×88.9×12.7

NOMINAL IMPEDANCE: 50Ω

Notes:

1. Dimensions Tolerance ±2%

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Model 8Way High Frequency Power Dividers

Model Number	Frequency Range(GHz)	Input VSWR	Insertion Loss(dB)	Amplitude Balance(dB)	Phase Balance(°)	Average Power(W)	Isolation (dB)	Dimension L×W×H(mm)
SHX208-005080	0.5-8	≤1.5	≤5.8	≤±0.4	±4°	20	≤16(0.5-1) ≤18(1-8)	162.6×147.3×12.7
SHX208-005180	0.5-18	≤1.5	≤6.5	≤±0.4	±5°	20	≤16(0.5-1) ≤18(1-18)	162.6×147.3×12.7
SHX208-005265	0.5-26.5	≤1.6	≤7.6	≤±0.5	±5°	20	≤16(0.5-1) ≤18(1-26.5)	162.6×147.3×12.7
SHX208-005400	0.5-40	≤1.7	≤10.4	≤±0.6	±6°	20	≤16(0.5-1) ≤18(1-40)	162.6×147.3×12.7
SHX208-010180	1-18	≤1.6	≤4.5	≤±0.4	±5°	20	≤16	109.2×137.2×12.7
SHX208-010265	1-26.5	≤1.75	≤5.8	≤±0.4	±5°	20	≤16	109.2×137.2×12.7
SHX208-020180	2-18	≤1.6	≤2.9	≤±0.3	±4°	20	≤16	88.9×132.1×12.7
SHX208-020265	2-26.5	≤1.7	≤3.5	≤±0.4	±5°	20	≤16	88.9×132.1×12.7
SHX208-060180	6-18	≤1.5	≤2.1	≤±0.3	±3°	20	≤16	49.5×109.2×12.7
SHX208-060265	6-26.5	≤1.6	≤2.5	≤±0.4	±4°	20	≤16	49.5×109.2×12.7
SHX208-060400	6-40	≤1.7	≤3.4	≤±0.5	±5°	20	≤16	49.5×109.2×12.7
SHX208-100265	10-26.5	≤1.6	≤2.5	≤±0.4	±4°	20	≤16	49.5×109.2×12.7
SHX208-100400	10-40	≤1.7	≤3.4	≤±0.5	±5°	20	≤16	49.5×109.2×12.7
SHX208-180265	18-26.5	≤1.6	≤2.4	≤±0.4	±4°	20	≤18	49.5×109.2×12.7
SHX208-180400	18-40	≤1.7	≤3.5	≤±0.5	±5°	20	≤18	49.5×109.2×12.7

NOMINAL IMPEDANCE: 50Ω

Notes:

1. Dimensions Tolerance ±2%

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Model 16Way High Frequency Power Dividers

Model Number	Frequency Range(GHz)	Input VSWR	Insertion Loss(dB)	Amplitude Balance(dB)	Phase Balance(°)	Average Power(W)	Isolation (dB)	Dimension L×W×H(mm)
SHX216-060180	6-18	≤1.6	≤3.5	≤±0.6	±8°	20	≤18	223.5×49.5×12.7
SHX216-060265	6-26.5	≤1.7	≤4.0	≤±0.7	±8°	20	≤16	223.5×49.5×12.7
SHX216-060400	6-40	≤1.8	≤5.1	≤±0.8	±9°	20	≤16	223.5×49.5×12.7
SHX216-100265	10-26.5	≤1.7	≤4.0	≤±0.6	±6°	20	≤17	223.5×49.5×12.7
SHX216-100400	10-40	≤1.8	≤4.9	≤±0.6	±8°	20	≤17	223.5×49.5×12.7
SHX216-180265	18-26.5	≤1.6	≤3.6	≤±0.5	±6°	20	≤18	210.8×36.8×12.7
SHX216-180400	18-40	≤1.8	≤5.0	≤±0.6	±7°	20	≤17	210.8×36.8×12.7

NOMINAL IMPEDANCE: 50Ω

Notes:

1. Dimensions Tolerance ±2%

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Model SHX-0.8/3 2-16Way Power Dividers

Model Number	Frequency Range (GHz)	Power Handling (W)	Amplitude Balance (dB)	Insertion Loss (dB)	Isolation (dB)	VSWR	Connector Type	Dimensions (mm)
SHX-0.8/2.7-2S	0.8-2.7	20	≤±0.3	≤3.5	≥20	≤1.3	SMA(F)	55.5×46×19
SHX-0.8/2.7-4S	0.8-2.7	20	≤±0.8	≤7.6	≥20	≤1.4	SMA(F)	78×72×14
SHX-0.8/2.7-8S	0.8-2.7	20	≤±1.0	≤11.5	≥18	≤1.6	SMA(F)	116×62×14
SHX-0.8/3-2N	0.8-3	20	≤±0.3	≤3.5	≥20	≤1.3	N(F)	56×55×20
SHX-0.8/3-2S	0.8-3	20	≤±0.5	≤3.9	≥20	≤1.4	SMA(F)	40×44×14
SHX-0.8/3-3N	0.8-3	20	≤±1.0	≤6.3	≥18	≤1.5	N(F)	90×74×20
SHX-0.8/3-3S	0.8-3	20	≤±0.9	≤6.3	≥18	≤1.5	SMA(F)	83×56×14
SHX-0.8/3-4N	0.8-3	20	≤±0.6	≤7.2	≥20	≤1.3	N(F)	113×81×20
SHX-0.8/3-4S	0.8-3	20	≤±0.8	≤7.6	≥20	≤1.4	SMA(F)	78×72×14
SHX-0.8/3-6S	0.8-3	20	≤±1.3	≤9.8	≥20	≤1.5	SMA(F)	98×134×14
SHX-0.8/3-8N	0.8-3	20	≤±1.3	≤11.0	≥18	≤1.6	N(F)	198×78×22
SHX-0.8/3-8S	0.8-3	20	≤±1.3	≤11.0	≥18	≤1.6	SMA(F)	116×62×14
SHX-0.8/3-16S	0.8-3	20	≤±1.6	≤14.5	≥18	≤1.6	SMA(F)	223×93×14
SHX-0.8/3-16N	0.8-3	20	≤±1.5	≤15.0	≥16	≤1.8	N(F)	195×140×20
SHX-0.5/6-2S	0.5-6	30	≤±0.6	≤3.8	≥18	≤1.45	SMA(F)	121×27×10
SHX-0.5/6-2S-1	0.5-6	50	≤±0.3	≤1.0	≥16	≤1.8	SMA(F)	36×45×12
SHX-0.5/6-2N	0.5-6	20	≤±0.6	≤1.6	≥18	≤1.6	N(F)	122×27×20
SHX-0.5/6-4S	0.5-6	20	≤±1.5	≤8.8	≥15	≤1.8	SMA(F)	80×66×14
SHX-2/6-2N	2-6	20	≤±0.5	≤3.8	≥18	≤1.5	N(F)	35×49×20
SHX-2/6-2N-1	2-6	20	≤±0.5	≤0.8	≥18	≤1.4	N(F)	48×38×18
SHX-2/6-2S	2-6	20	≤±0.5	≤3.8	≥18	≤1.5	SMA(F)	30×34×10
SHX-2/6-3N	2-6	20	≤±1.0	≤6.5	≥18	≤1.5	N(F)	61×35×20
SHX-2/6-3S	2-6	20	≤±0.8	≤6.0	≥18	≤1.5	SMA(F)	46×74×10
SHX-2/6-4N	2-6	20	≤±0.8	≤7.5	≥18	≤1.5	N(F)	32×62×20
SHX-2/6-4S	2-6	20	≤±0.6	≤7.2	≥18	≤1.5	SMA(F)	64×58×10
SHX-2/6-8N	2-6	20	≤±1.0	≤10.5	≥16	≤1.5	N(F)	184×51×18
SHX-2/6-8S	2-6	20	≤±1.0	≤10.9	≥18	≤1.4	SMA(F)	120×75×10
SHX-2/6-16S	2-6	20	≤±1.9	≤16.0	≥16	≤1.6	SMA(F)	81×222×15
SHX-2/8-2S	2-8	20	≤±0.5	≤3.8	≥18	≤1.4	SMA(F)	30×34×10
SHX-2/8-3S	2-8	20	≤±0.9	≤6.0	≥18	≤1.4	SMA(F)	46×74×10
SHX-8/12-2S	8-12	20	≤±0.6	≤4.0	≥18	≤1.5	SMA(F)	24×30×10
SHX-8/12-4S	8-12	20	≤±0.9	≤7.6	≥16	≤1.6	SMA(F)	62×42×10
SHX-2/18-2S	2-18	20	≤±0.9	≤4.2	≥18	≤1.5	SMA(F)	47×24×10

NOMINAL IMPEDANCE: 50Ω

Notes:

1. Dimensions Tolerance ±2%

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