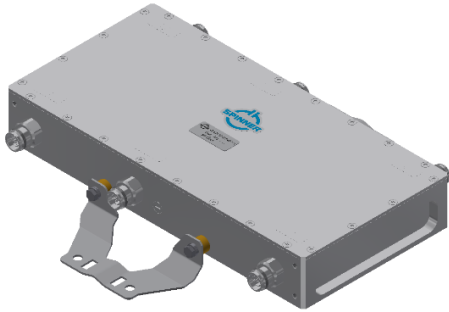
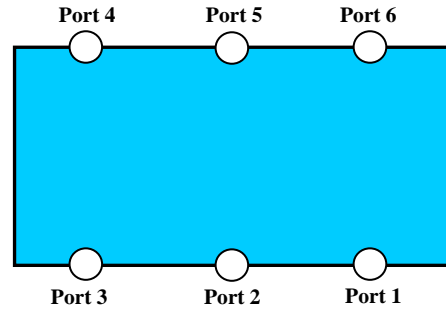


3:3 Combiner 88-3800 MHz Compact Version



Picture not binding



block diagram

Electrical characteristics

Part number	BN 570754F001		
Insertion loss (Including nominal 4.8 dB splitting losses)	88 MHz	350 MHz	380 – 3800 MHz
	See diagram page 3,4	See diagram page 3,4	5.0 dB ± 1.2 dB
Frequency range	88 – 3800 MHz		
Isolation	≥ 28 dB typ. 30 dB		
Impedance	50 Ohm		
Special feature	DC path Port 1 → Port 6, Port 2 → Port 4, Port 3 → Port 5 (max. 6.5 A AISG2 conform)		
Test voltage	500 V		
Passive intermodulation (IM3), 3rd order @ 2 x 20W	-160 dBc max. / -165 dBc typ.		
VSWR	≤ 1.25		
Power Rating	500W (CW) max. per port		

Mechanical characteristics

Connectors Port 1 – 3 Port 4 – 6	4.3-10 female Input ports Output ports
Dimensions, approx.	365 x 331 x 77 mm (Width x Height x Depth)
Weight, approx.	6.6 kg
Wall / Mast mounting	Part of delivery

Environmental conditions

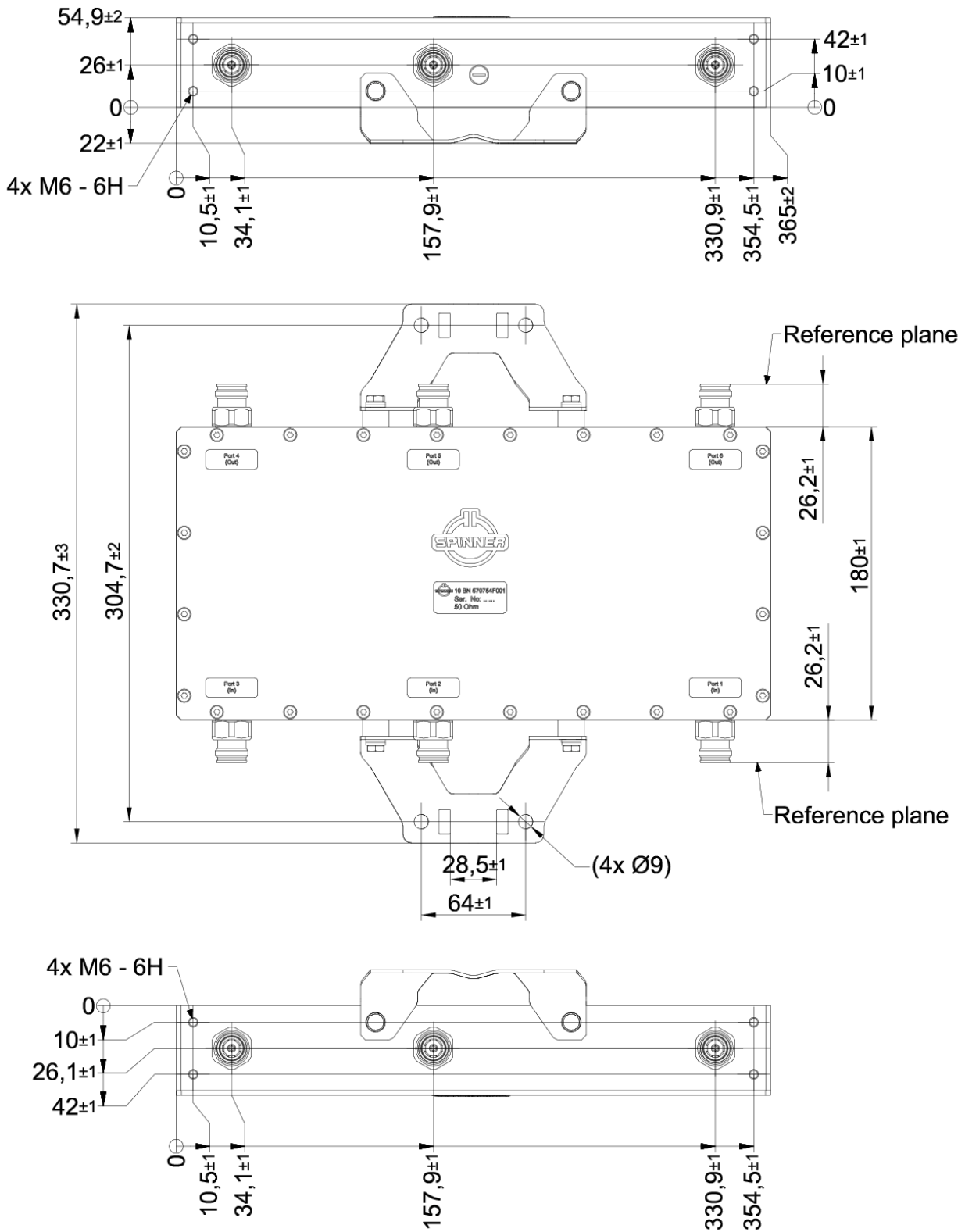
Class. of environmental conditions	ETSI EN 300019-1-1 Class 1.2 ETSI EN 300019-1-2 Class 2.3 ETSI EN 300019-1-4 Class 4.1E
Degree of protection	IP 65 (Outdoor)
Operation Ambient temperature range	-40 °C to +55 °C
Storage Ambient temperature range	-40 °C to +85 °C
Relative humidity, max.	95% (non-condensing)

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3:3 Combiner 88-3800 MHz Compact Version

Outline (all dimensions in millimeter)



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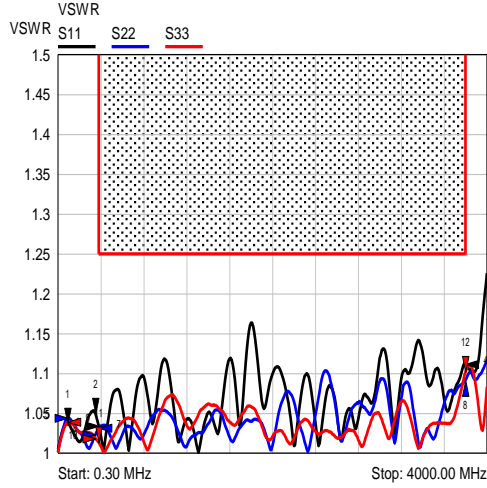
Standard:
 4.3-10 female (50 ohms): IEC 61169-54

modifications reserved!

3:3 Combiner 88-3800 MHz Compact Version

Measurements:

VSWR:



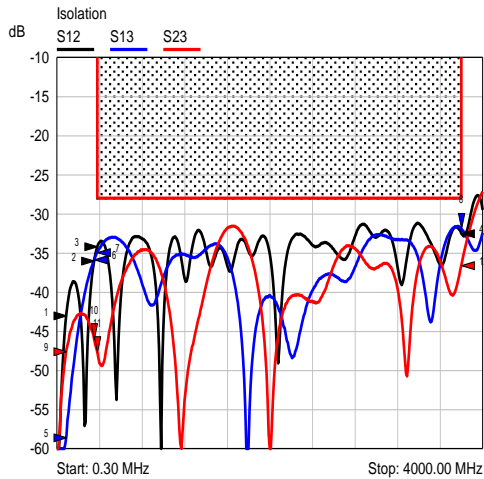
Mkr	Trace	X-Axis	Value
1	S11	88.00 MHz	1.04 VSWR
2	S11	350.00 MHz	1.05 VSWR
3	S11	380.00 MHz	1.03 VSWR
4	S11	3800.00 MHz	1.11 VSWR
5	S22	88.00 MHz	1.04 VSWR
6	S22	350.00 MHz	1.02 VSWR
7	S22	380.00 MHz	1.03 VSWR
8	S22	3800.00 MHz	1.09 VSWR
9	S33	88.00 MHz	1.04 VSWR
10	S33	350.00 MHz	1.02 VSWR
11	S33	380.00 MHz	1.01 VSWR
12	S33	3800.00 MHz	1.10 VSWR

— typical for: S11

— typical for: S22

— typical for: S33

Isolation:



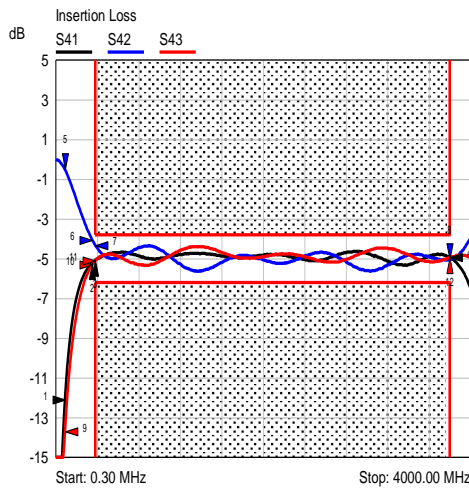
Mkr	Trace	X-Axis	Value
1	S12	88.00 MHz	-42.97 dB
2	S12	350.00 MHz	-36.01 dB
3	S12	380.00 MHz	-34.21 dB
4	S12	3800.00 MHz	-32.47 dB
5	S13	88.00 MHz	-58.54 dB
6	S13	350.00 MHz	-35.82 dB
7	S13	380.00 MHz	-34.91 dB
8	S13	3800.00 MHz	-31.93 dB
9	S23	88.00 MHz	-47.58 dB
10	S23	350.00 MHz	-46.02 dB
11	S23	380.00 MHz	-47.69 dB
12	S23	3800.00 MHz	-36.57 dB

— typical for: S12

— typical for: S13

— typical for: S23

Insertion Loss:



Mkr	Trace	X-Axis	Value
1	S41	88.00 MHz	-12.10 dB
2	S41	350.00 MHz	-5.23 dB
3	S41	380.00 MHz	-5.07 dB
4	S41	3800.00 MHz	-4.94 dB
5	S42	88.00 MHz	-0.51 dB
6	S42	350.00 MHz	-4.05 dB
7	S42	380.00 MHz	-4.33 dB
8	S42	3800.00 MHz	-5.04 dB
9	S43	88.00 MHz	-13.69 dB
10	S43	350.00 MHz	-5.31 dB
11	S43	380.00 MHz	-5.09 dB
12	S43	3800.00 MHz	-4.94 dB

— typical for: S41

— typical for: S42

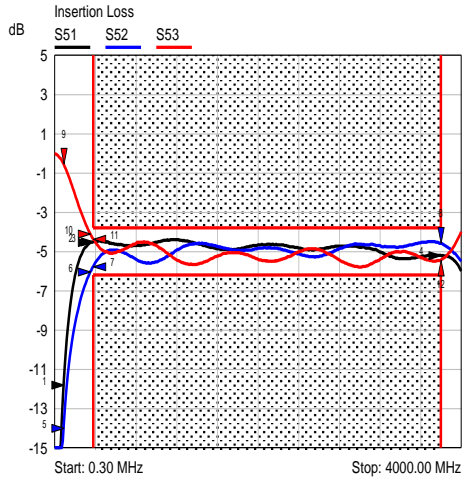
— typical for: S43

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3:3 Combiner 88-3800 MHz Compact Version

Insertion Loss:



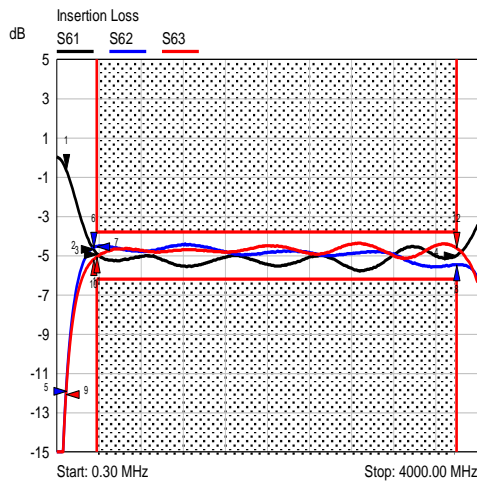
Mkr	Trace	X-Axis	Value
1	S51	88.00 MHz	-11.82 dB
2	S51	350.00 MHz	-4.55 dB
3	S51	380.00 MHz	-4.49 dB
4	S51	3800.00 MHz	-5.21 dB
5	S52	88.00 MHz	-14.00 dB
6	S52	350.00 MHz	-6.04 dB
7	S52	380.00 MHz	-5.75 dB
8	S52	3800.00 MHz	-4.58 dB
9	S53	88.00 MHz	-0.55 dB
10	S53	350.00 MHz	-4.10 dB
11	S53	380.00 MHz	-4.38 dB
12	S53	3800.00 MHz	-5.42 dB

— typical for: S51

— typical for: S52

— typical for: S53

Insertion Loss:



Mkr	Trace	X-Axis	Value
1	S61	88.00 MHz	-0.63 dB
2	S61	350.00 MHz	-4.67 dB
3	S61	380.00 MHz	-4.91 dB
4	S61	3800.00 MHz	-5.00 dB
5	S62	88.00 MHz	-11.90 dB
6	S62	350.00 MHz	-4.61 dB
7	S62	380.00 MHz	-4.53 dB
8	S62	3800.00 MHz	-5.47 dB
9	S63	88.00 MHz	-12.06 dB
10	S63	350.00 MHz	-5.19 dB
11	S63	380.00 MHz	-5.08 dB
12	S63	3800.00 MHz	-4.59 dB

— typical for: S61

— typical for: S62

— typical for: S63

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