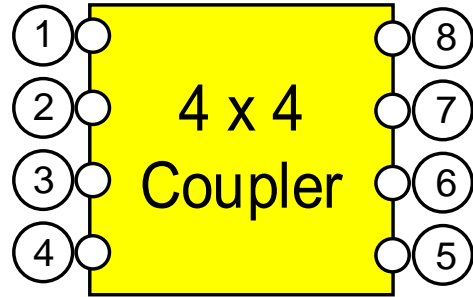


4:4 Combiner 88-3800 MHz Compact Version



Picture not binding



block diagram

**Electrical characteristics**

Part number	<b>BN 570755F001</b>		
Insertion loss (Including nominal 6 dB splitting losses)	88MHz	350MHz	380 – 3800 MHz
	See diagram page 3	See diagram page 3	6.1 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 5, Port 2 → Port 7 DC path Port 3 → Port 6, Port 4 → Port 8 (max. 6.5A 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 – 4 Port 5 – 8	4.3-10 female Input ports Output ports
Dimensions, approx.	307 x 269 x 85 mm (Width x Height x Depth)
Weight, approx.	6.2 kg
Wall / Mast mounting	Part of delivery

**Environmental conditions**

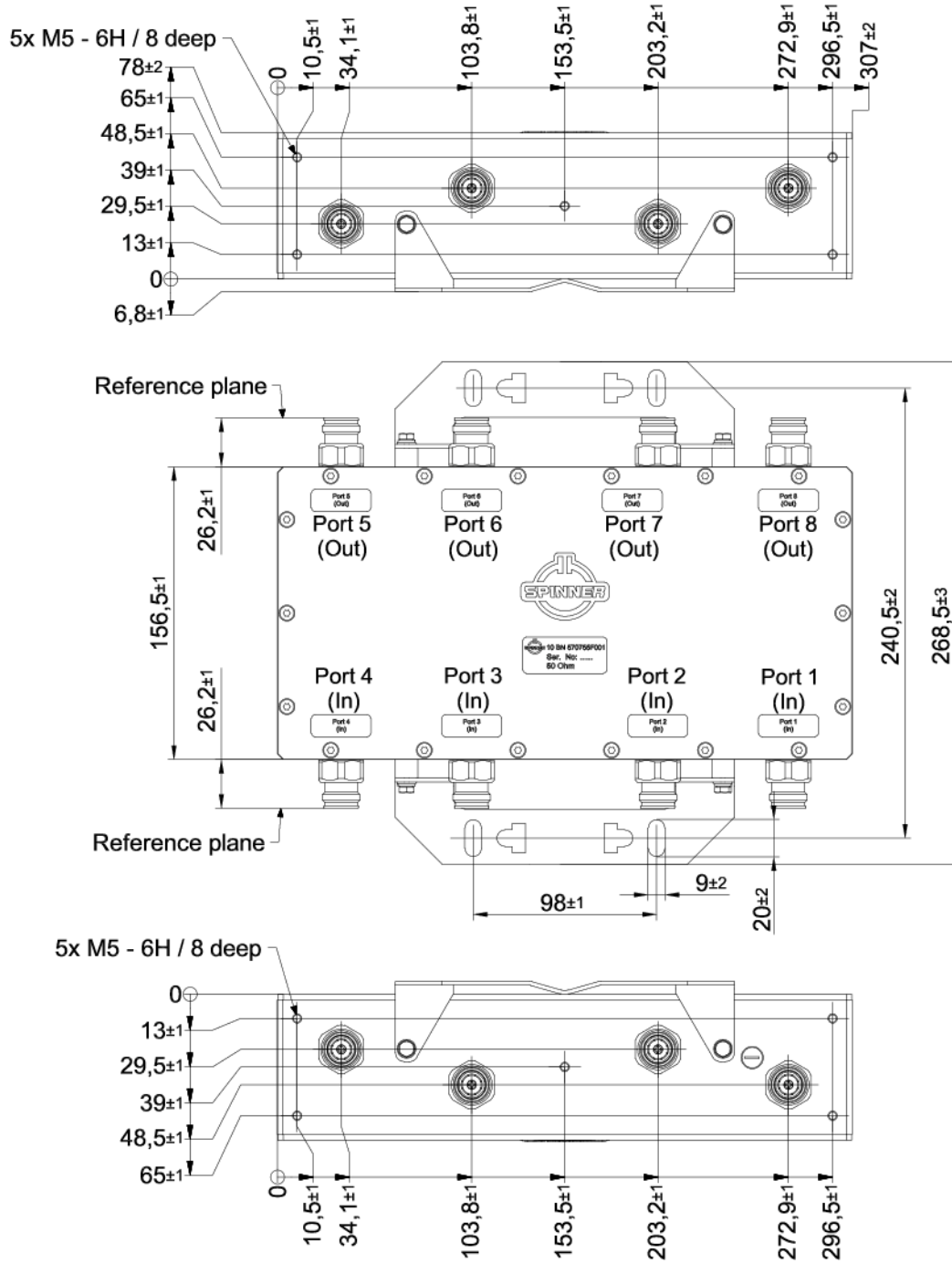
Class. of environmental conditions	ETSI EN 300019-1-1 Class 1.2 ETSI EN 300019-1-2 Class 2.3 ETSI EN 300019-1-4 Class 4.1E
Degree of protection	IP 65 (Outdoor)
Operation Ambient temperature range	-40 °C to +55 °C
Storage Ambient temperature range	-40 °C to +85 °C
Relative humidity, max.	95% (non-condensing)

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### 4:4 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

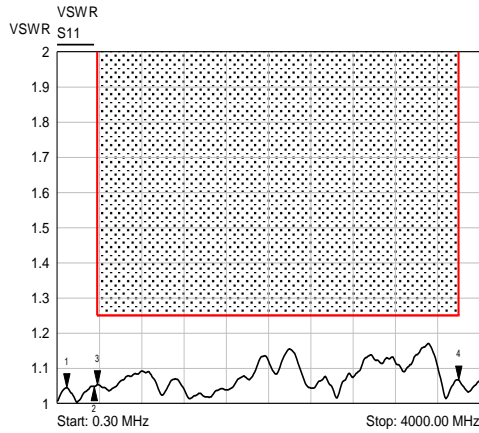
modifications reserved!

Template TD-00002Y

# 4:4 Combiner 88-3800 MHz Compact Version

## Measurements:

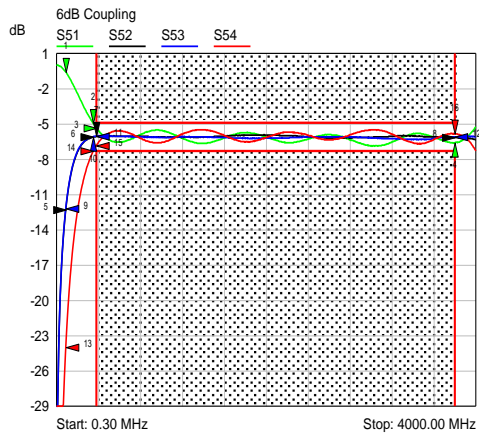
### VSWR:



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	1.05 VSWR
4	S11	3800.00 MHz	1.07 VSWR

— typical for: S11 ... S44

### Insertion loss:



Mkr	Trace	X-Axis	Value
1	S51	88.00 MHz	-0.58 dB
2	S51	350.00 MHz	-4.96 dB
3	S51	380.00 MHz	-5.35 dB
4	S51	3800.00 MHz	-6.62 dB
5	S52	88.00 MHz	-12.29 dB
6	S52	350.00 MHz	-6.10 dB
7	S52	380.00 MHz	-6.07 dB
8	S52	3800.00 MHz	-6.15 dB
9	S53	88.00 MHz	-12.20 dB
10	S53	350.00 MHz	-6.09 dB
11	S53	380.00 MHz	-6.05 dB
12	S53	3800.00 MHz	-6.11 dB
13	S54	88.00 MHz	-24.03 dB
14	S54	350.00 MHz	-7.33 dB
15	S54	380.00 MHz	-6.85 dB
16	S54	3800.00 MHz	-5.85 dB

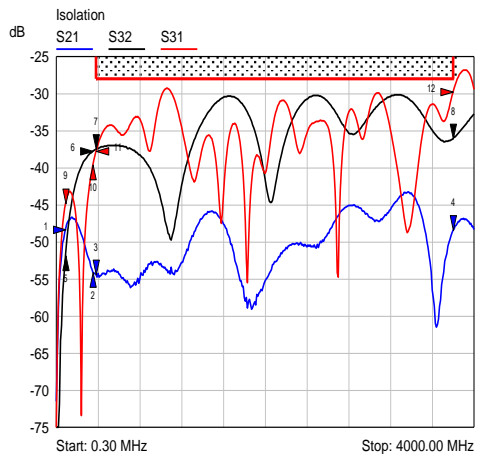
— typical for: S51, S63, S72, S84

— typical for: S52, S64, S71, S83

— typical for: S53, S61, S74, S82,

— typical for: S54, S62, S73, S81.

### Isolation:



Mkr	Trace	X-Axis	Value
1	S21	88.00 MHz	-48.31 dB
2	S21	350.00 MHz	-54.10 dB
3	S21	380.00 MHz	-54.38 dB
4	S21	3800.00 MHz	-48.44 dB
5	S32	88.00 MHz	-51.85 dB
6	S32	350.00 MHz	-37.74 dB
7	S32	380.00 MHz	-37.52 dB
8	S32	3800.00 MHz	-36.06 dB
9	S31	88.00 MHz	-44.83 dB
10	S31	350.00 MHz	-39.64 dB
11	S31	380.00 MHz	-37.81 dB
12	S31	3800.00 MHz	-29.74 dB

— typical for: S31, S42

— typical for: S21, S43

— typical for: S32, S41

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