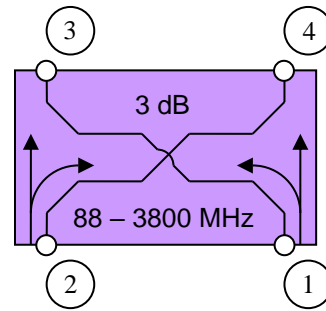


## Directional coupler 88-3800 MHz



Picture not binding



block diagram

### Electrical characteristics

Part number	BN 753393F001		
Coupling attenuation	88MHz	350MHz	380 – 3800 MHz
	0.3 dB typ. Port 3-1/4-2 12 dB typ. Port 3-2/4-1	2.5 dB typ. Port 3-1/4-2 4 dB typ. Port 3-2/4-1	3.05 dB ± 0.6 dB
Frequency range	88 – 3800 MHz		
Isolation	≥ 30 dB   typ. 35 dB		
Impedance	50 Ohm		
Special feature	DC path Port 1 → Port 3, Port 2 → Port 4 (max. 6.5A AISG2 conform)		
Test voltage	500 V		
Passive intermodulation (IM3), 3rd order @ 2 x 20W	-160 dBc max. / -165 dBc typ. @ 380-3800MHz		
VSWR	≤ 1.2		
Power Rating	500W (CW) max. per port		

### Mechanical characteristics

Connectors Port 1 – 2 Port 3 – 4	4.3-10 female Input ports Output ports
Dimensions, approx.	238 x 140 x 50 mm (Width x Height x Depth)
Weight, approx.	2.1 kg
Color	light grey (RAL 7047)
Wall / Mast mounting	to be ordered separately under BN B13702

### Environmental conditions

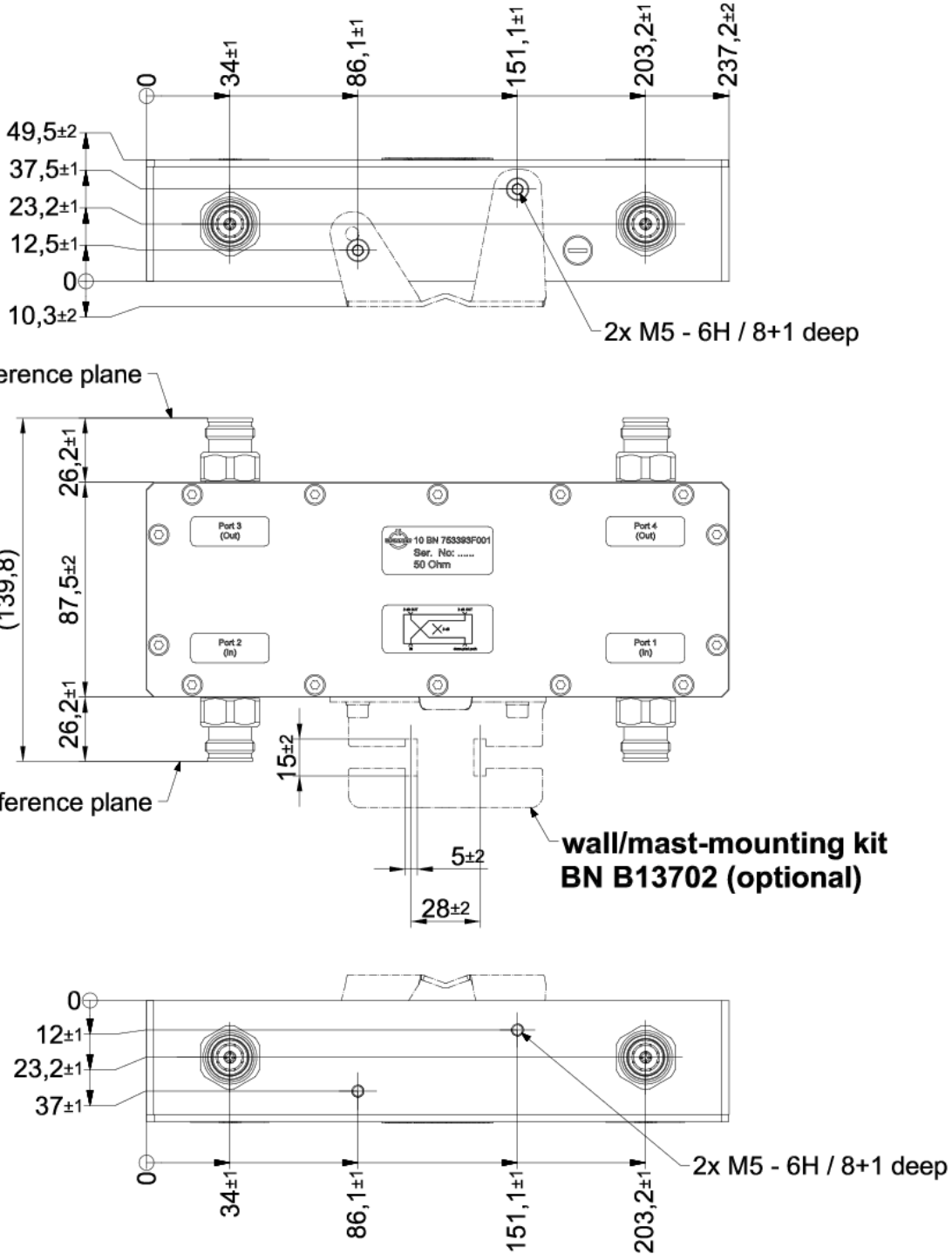
Class. of environmental conditions	ETSI EN 300019-1-1 Class 1.2 ETSI EN 300019-1-2 Class 2.3 ETSI EN 300019-1-4 Class 4.1E
Degree of protection	IP 65 (Outdoor)
Operation Ambient temperature range	-40 °C to +55 °C
Storage Ambient temperature range	-40 °C to +85 °C
Relative humidity, max.	95% (non-condensing)

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Template TD-00002Y

### Directional coupler 88-3800 MHz

Outline (all dimensions in millimeter)



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

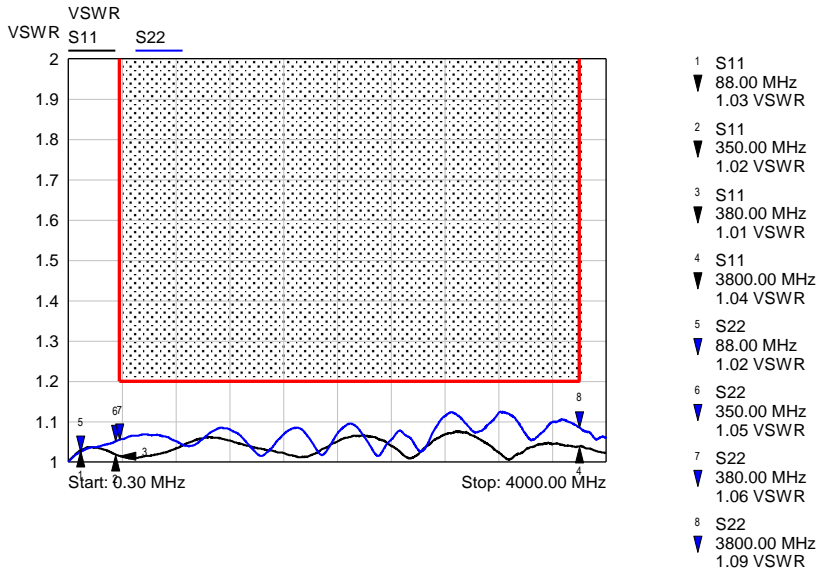
modifications reserved!

Template TD-00002Y

# Directional coupler 88-3800 MHz

## Measurements:

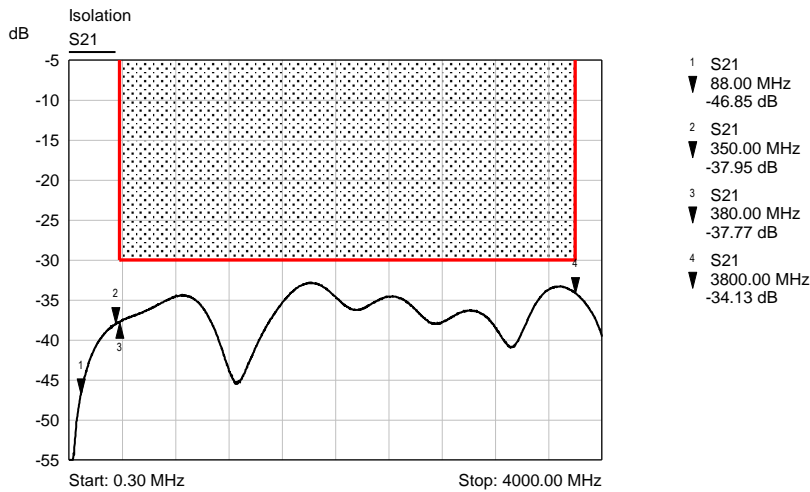
### VSWR:



— typical for: S11

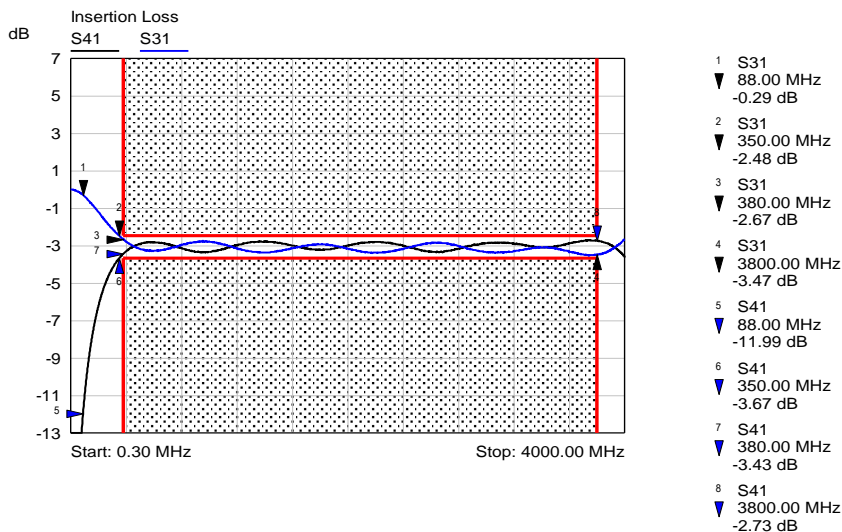
— typical for: S22

### Isolation:



— typical for: S21, S43

### Insertion Loss:



— typical for: S41, S32

— typical for: S31, S42

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