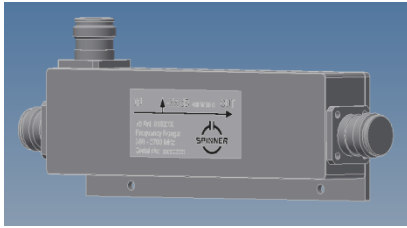
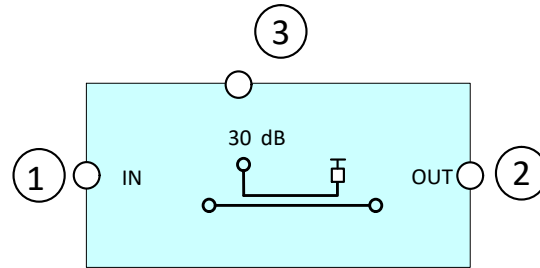


Directional Coupler 4.8dB /6dB /7dB /8dB /10dB /13dB /15dB /20dB /30dB



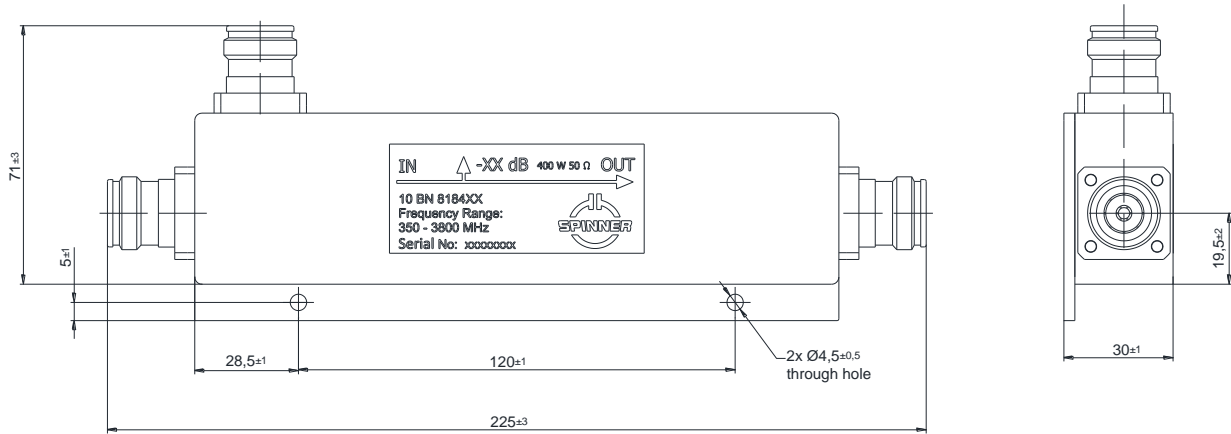
not binding



block diagram (use 30dB coupler as an example)

Part number (BN) 4.3-10 Female (50)	818431	818432	818433	818434	818435	818436	818437	818438	818439
Part number (BN) 7-16 Female (50 Ohms)	818440	818441	818442	818443	818444	818445	818446	818447	818448
Splitting ratio	1 : 0.32 : 0.67	1 : 0.25 : 0.75	1 : 0.2 : 0.8	1 : 0.16 : 0.84	1 : 0.1 : 0.9	1 : 0.05 : 0.95	1 : 0.03 : 0.97	1 : 0.01 : 0.99	1 : 0.001 : 0.999
Frequency range	350 – 3800 MHz								
Insertion loss	< 2.5 dB typ 2.0dB	< 1.8 dB typ 1.4dB	< 1.5 dB typ 1.2dB	< 1.2 dB typ 0.8dB	< 1.1 dB typ 0.7dB	< 0.8 dB typ 0.4dB	< 0.7 dB typ 0.3dB	< 0.5 dB typ 0.1dB	< 0.3 dB typ 0.1dB
Coupling	4.8 dB ± 1.2 dB	6 dB ± 1.2 dB	7 dB ± 1.2 dB	8 dB ± 1.5 dB	10 dB ± 1.5 dB	13 dB ± 1.5 dB	15 dB ± 1.5 dB	20 dB ± 2 dB	30 dB ± 2 dB
VSWR	≤ 1.3								
Directivity	≥ 18 dB	≥ 18 dB	≥ 18 dB	≥ 18 dB	≥ 18 dB	≥ 17 dB	≥ 17 dB	≥ 15 dB	≥ 15 dB
Power rating	4.3 -10 Female ≤ 400 W 7-16 Female ≤ 500 W								
IM - value 3rd order @ 2 x 20 W	≤ -155 dBc typical ≤ -160 dBc								
DC-by-pass	Port 1 to Port 2 (max. 1A per input max. 60V DC(AISG Standard, 2.0, § 6.4))								
Degree of protection	IP 65 (Outdoor)								
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								
Weight	4.3 -10 Female 680 g 7-16 Female 880 g								
Color	Grey								
Wall / Mast mounting	integrated								
Temperature range	-35 °C – +75 °C								
Dimensions (w x h x d)	See drawing								

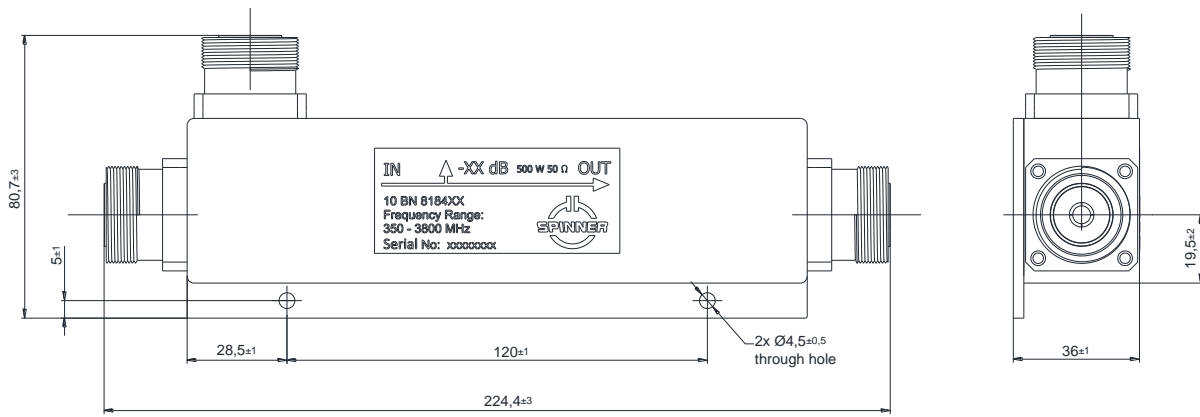
Dimensions:



Standard:

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

modifications reserved

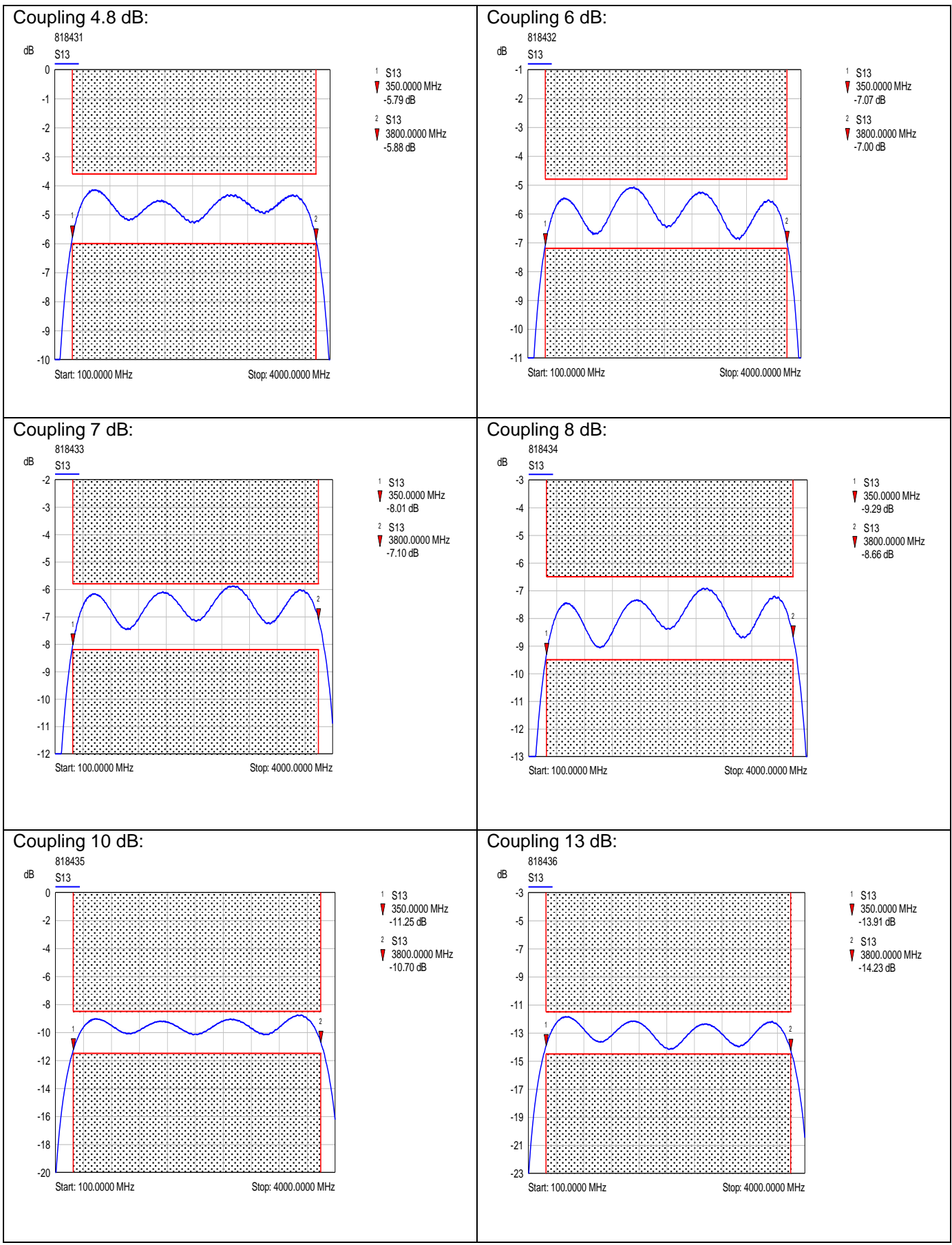


Standard:

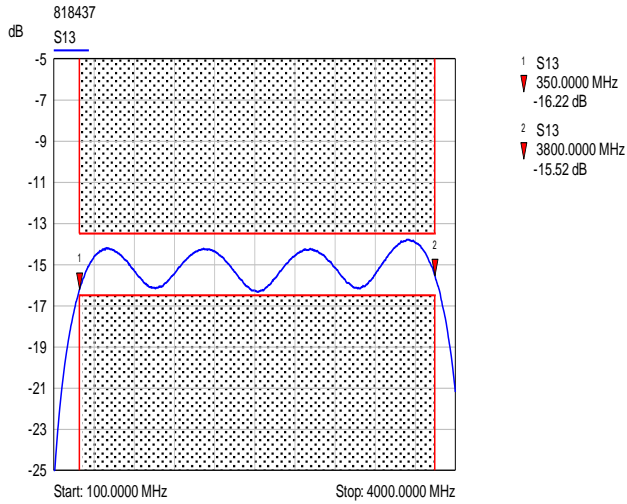
7-16 female (50 ohms): CECC 22190, IEC 61169-4

modifications reserved

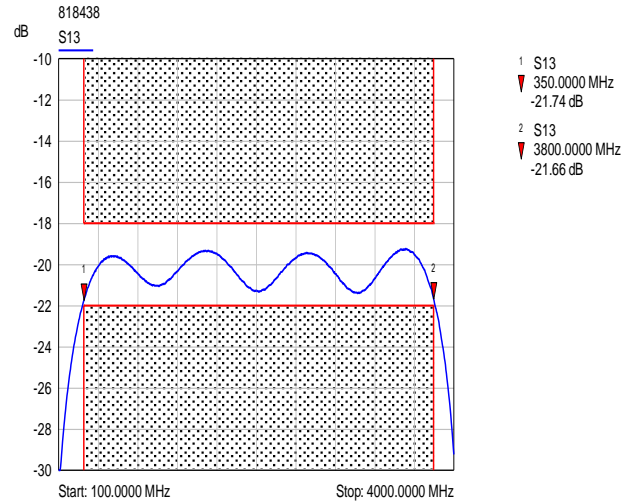
Measurement:



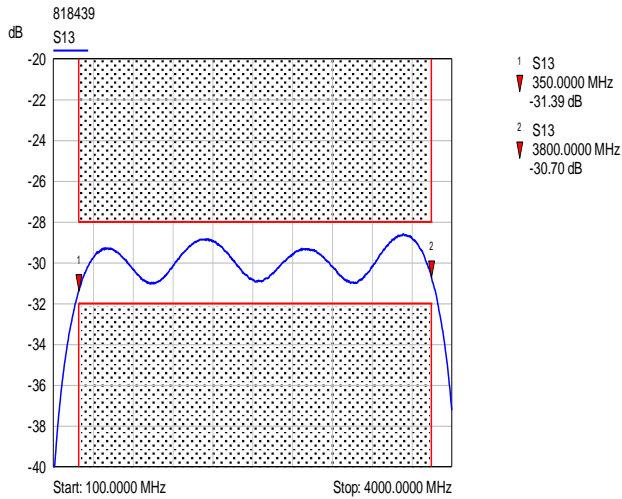
Coupling 15 dB:



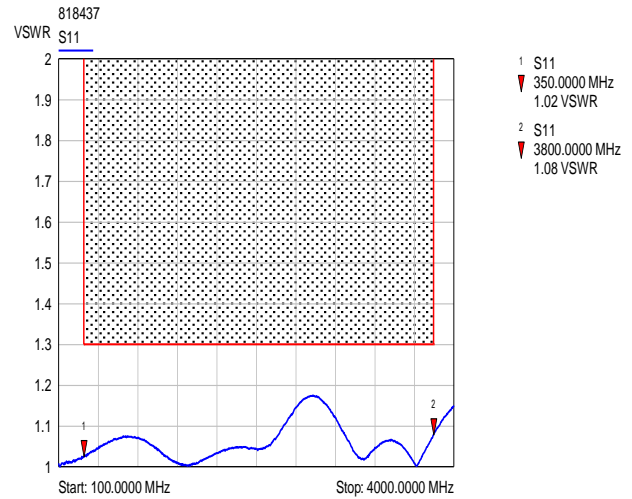
Coupling 20 dB:



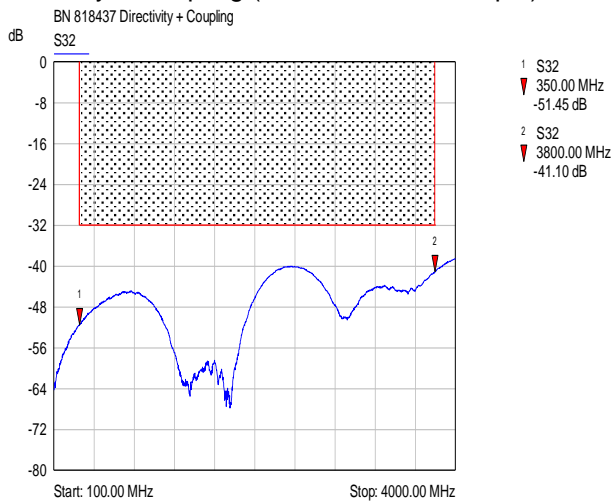
Coupling 30 dB:



VSWR (BN818437 as example):



Directivity + Coupling (BN818437 as example):



Insertion Loss (BN818431):

