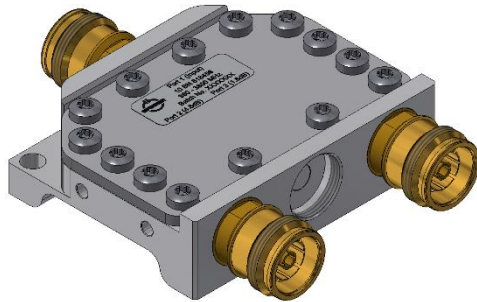
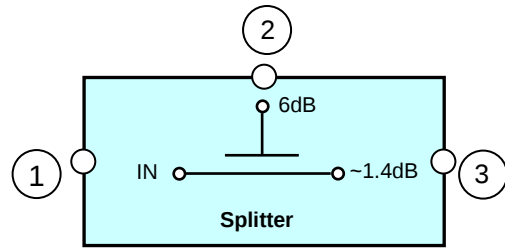


Asymmetric Splitters 4.8dB /6dB /7dB /8dB /10dB /13dB /15dB /20dB



Picture not binding



Block diagram using 6 dB as example.

Electrical characteristics

Part number		818458	818459	818460	818461	818462	818463	818464	818465
Splitting ratio		1: 0.33: 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
Insertion loss:		< 2.8 dB typ. 1.8dB	< 2.1 dB typ. 1.4dB	< 1.7 dB typ. 1.2dB	< 1.3 dB typ. 0.9dB	< 1.0 dB typ. 0.6dB	< 0.7 dB typ. 0.4dB	< 0.6 dB typ. 0.3dB	< 0.4 dB typ. 0.1dB
Coupling		4.8 dB ± 1.5 dB	6 dB ± 1.5 dB	7 dB ± 1.5 dB	8 dB ± 1.5 dB	10 dB ± 2 dB	13 dB ± 2 dB	15 dB ± 2 dB	20 dB ± 2 dB
Return Loss	Port 3	≤ -5 dB	≤ -5 dB	≤ -5 dB	≤ -10 dB*	≤ -10 dB*	≤ -10 dB*	≤ -10 dB*	≤ -10 dB*
VSWR	Port 1	≤ 1.3							
Frequency range:		380 – 3800 MHz							
Impedance		50 Ohm							
DC-by-pass		Port 1 to Port 3 (max. 1A per input max. 60V DC (AISG Standard, 2.0, § 6.4))							
Passive intermodulation (IM3), 3rd order @ 2 x 20W		-155 dBc max. / -160 dBc typ.							
Power Rating Average power (CW)		≤ 300 W (Port 1) ≤ 100 W (Port 3)							

* According to DIN 14024-1

Mechanical characteristics

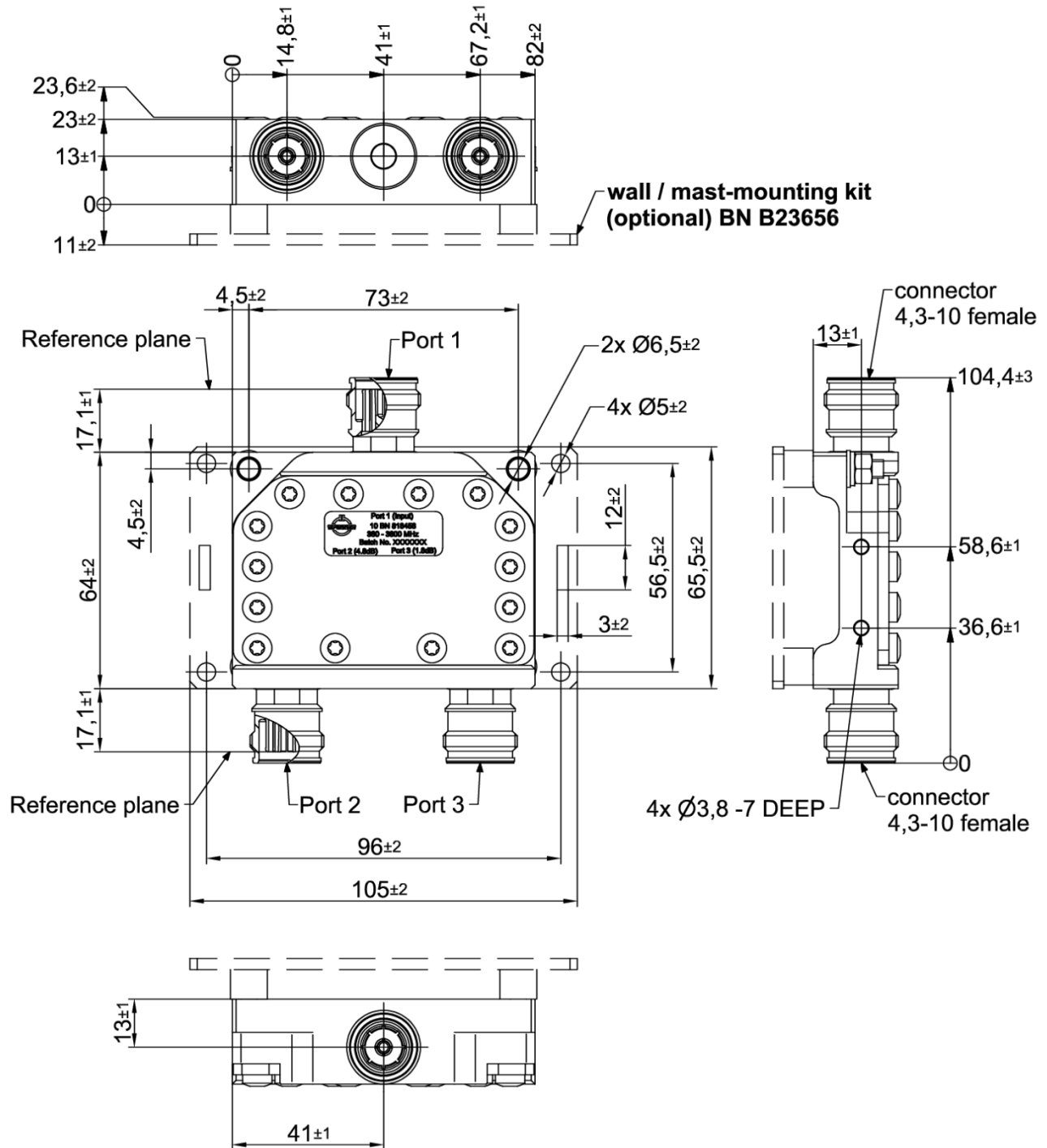
Connectors	4.3-10 female
Dimensions, approx.	82 x 105 x 24 mm (Width x Height x Depth)
Weight, approx.	0.3 kg
Color	light grey polyurea (RAL 7047)
Wall / Mast mounting	to be ordered separately under BN B23656

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

Asymmetric Splitters 4.8dB /6dB /7dB /8dB /10dB /13dB /15dB /20dB

Relative humidity, max.	95% (non-condensing)
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Outline (all dimensions in millimeter)

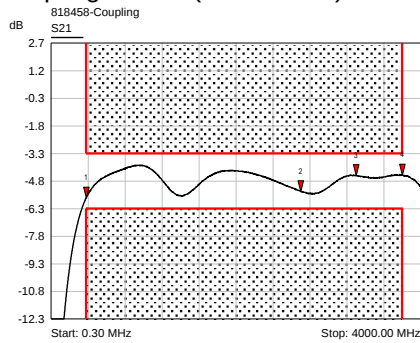
Standard:
4.3-10 female (50 ohms): IEC 61169-54

modifications reserved!

Asymmetric Splitters 4.8dB /6dB /7dB /8dB /10dB /13dB /15dB /20dB

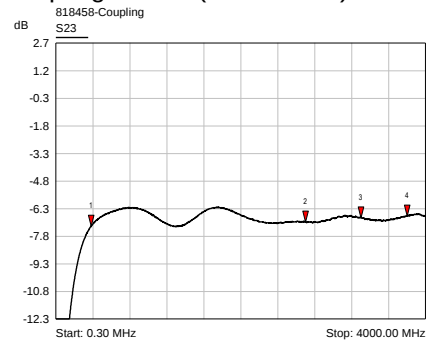
Measurement:

Coupling 4.8 dB (BN 818458): S21



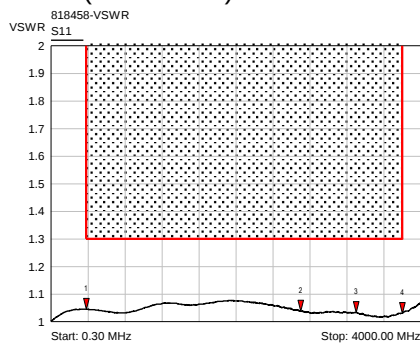
- 1 S21
▼ 380.00 MHz
-5.72 dB
- 2 S21
▼ 2700.00 MHz
-5.36 dB
- 3 S21
▼ 3300.00 MHz
-4.50 dB
- 4 S21
▼ 3800.00 MHz
-4.48 dB

Coupling 4.8 dB (BN 818458): S23



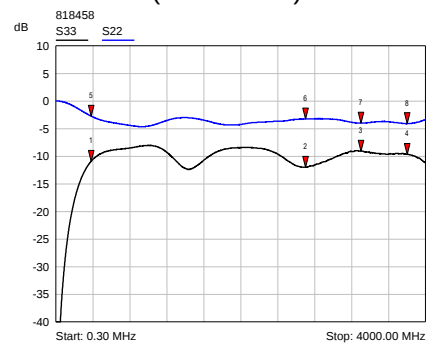
- 1 S23
▼ 380.00 MHz
-7.26 dB
- 2 S23
▼ 2700.00 MHz
-7.03 dB
- 3 S23
▼ 3300.00 MHz
-6.80 dB
- 4 S23
▼ 3800.00 MHz
-6.69 dB

VSWR (BN 818458): S11



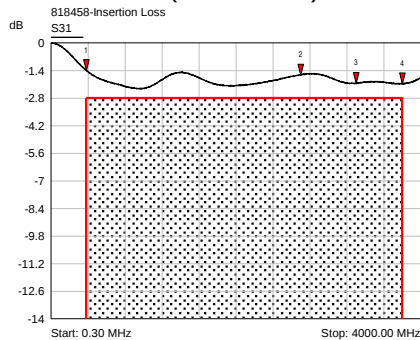
- 1 S11
▼ 380.00 MHz
1.05 VSWR
- 2 S11
▼ 2700.00 MHz
1.04 VSWR
- 3 S11
▼ 3300.00 MHz
1.03 VSWR
- 4 S11
▼ 3800.00 MHz
1.03 VSWR

Return Loss (BN 818458): S22 S33



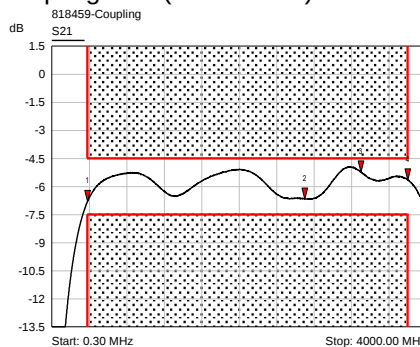
- 1 S33
▼ 380.00 MHz
-10.94 dB
- 2 S33
▼ 2700.00 MHz
-11.99 dB
- 3 S33
▼ 3300.00 MHz
-9.07 dB
- 4 S33
▼ 3800.00 MHz
-9.65 dB
- 5 S22
▼ 380.00 MHz
-2.73 dB
- 6 S22
▼ 2700.00 MHz
-3.27 dB
- 7 S22
▼ 3300.00 MHz
-4.02 dB
- 8 S22
▼ 3800.00 MHz
-4.11 dB

Insertion Loss (BN 818458):



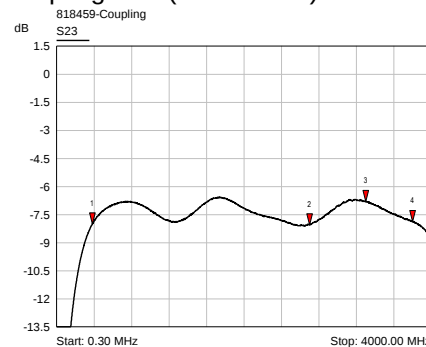
- 1 S31
▼ 380.00 MHz
-1.40 dB
- 2 S31
▼ 2700.00 MHz
-1.63 dB
- 3 S31
▼ 3300.00 MHz
-2.06 dB
- 4 S31
▼ 3800.00 MHz
-2.08 dB

Coupling 6dB (BN 818459): S21



- 1 S21
▼ 380.00 MHz
-6.80 dB
- 2 S21
▼ 2700.00 MHz
-6.58 dB
- 3 S21
▼ 3300.00 MHz
-5.22 dB
- 4 S21
▼ 3800.00 MHz
-5.64 dB

Coupling 6dB (BN 818459): S23

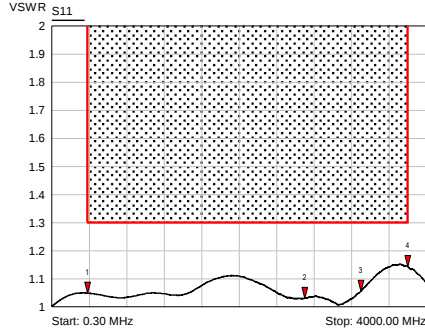


- 1 S23
▼ 380.00 MHz
-8.00 dB
- 2 S23
▼ 2700.00 MHz
-8.04 dB
- 3 S23
▼ 3300.00 MHz
-6.80 dB
- 4 S23
▼ 3800.00 MHz
-7.87 dB

Asymmetric Splitters 4.8dB /6dB /7dB /8dB /10dB /13dB /15dB /20dB

VSWR (BN 818459): S11

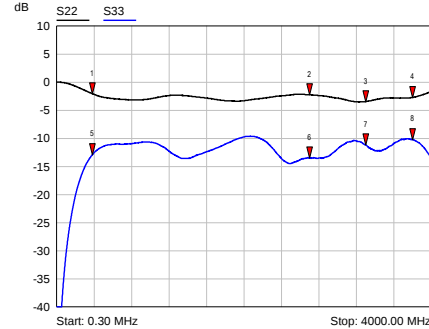
818459-VSWR



- 1 S11
380.00 MHz
1.05 VSWR
- 2 S11
2700.00 MHz
1.03 VSWR
- 3 S11
3300.00 MHz
1.05 VSWR
- 4 S11
3800.00 MHz
1.14 VSWR

Return Loss (BN 818459): S22 S33

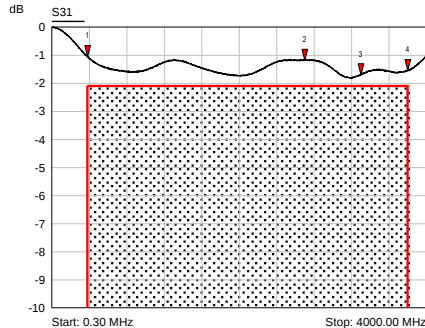
818459



- 1 S22
380.00 MHz
-2.04 dB
- 2 S22
2700.00 MHz
-2.24 dB
- 3 S22
3300.00 MHz
-3.46 dB
- 4 S22
3800.00 MHz
-2.75 dB
- 5 S33
380.00 MHz
-12.94 dB
- 6 S33
2700.00 MHz
-13.52 dB
- 7 S33
3300.00 MHz
-11.19 dB
- 8 S33
3800.00 MHz
-10.24 dB

Insertion Loss (BN 818459):

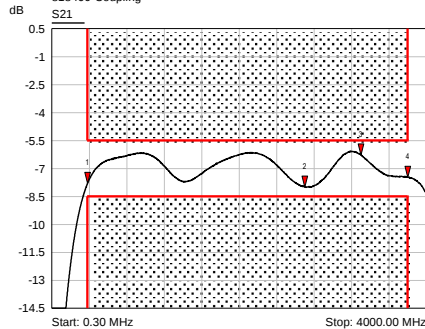
818459-Insertion Loss



- 1 S31
380.00 MHz
-1.06 dB
- 2 S31
2700.00 MHz
-1.18 dB
- 3 S31
3300.00 MHz
-1.71 dB
- 4 S31
3800.00 MHz
-1.55 dB

Coupling 7dB (BN 818460): S21

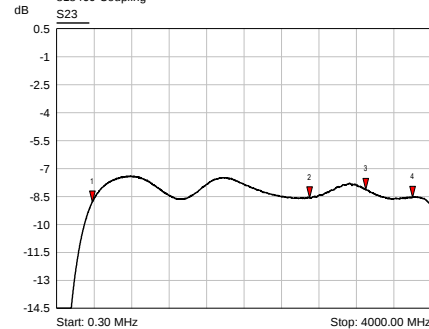
818460-Coupling



- 1 S21
380.00 MHz
-7.81 dB
- 2 S21
2700.00 MHz
-8.00 dB
- 3 S21
3300.00 MHz
-6.26 dB
- 4 S21
3800.00 MHz
-7.47 dB

Coupling 7dB (BN 818460): S23

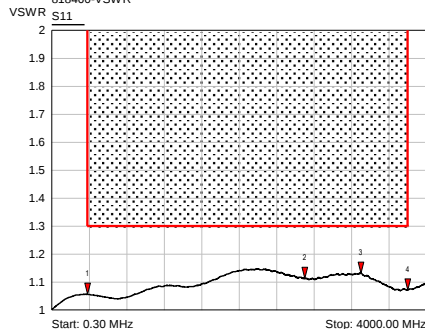
818460-Coupling



- 1 S23
380.00 MHz
-8.81 dB
- 2 S23
2700.00 MHz
-8.58 dB
- 3 S23
3300.00 MHz
-8.12 dB
- 4 S23
3800.00 MHz
-8.55 dB

VSWR (BN 818460): S11

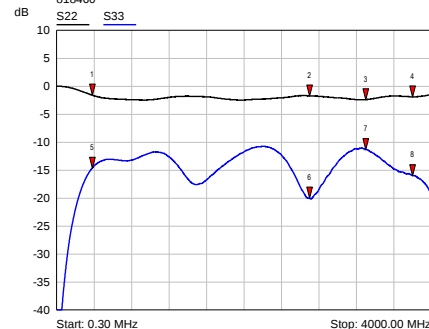
818460-VSWR



- 1 S11
380.00 MHz
1.06 VSWR
- 2 S11
2700.00 MHz
1.11 VSWR
- 3 S11
3300.00 MHz
1.13 VSWR
- 4 S11
3800.00 MHz
1.07 VSWR

Return Loss (BN 818460): S22 S33

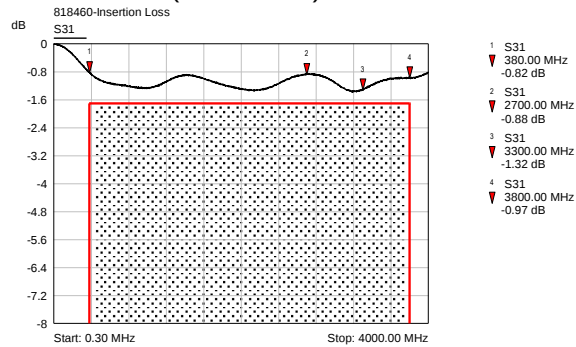
818460



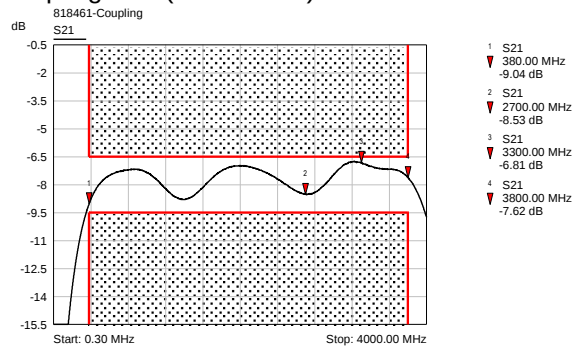
- 1 S22
380.00 MHz
-1.59 dB
- 2 S22
2700.00 MHz
-1.72 dB
- 3 S22
3300.00 MHz
-2.40 dB
- 4 S22
3800.00 MHz
-1.91 dB
- 5 S33
380.00 MHz
-14.64 dB
- 6 S33
2700.00 MHz
-20.02 dB
- 7 S33
3300.00 MHz
-11.33 dB
- 8 S33
3800.00 MHz
-16.01 dB

Asymmetric Splitters 4.8dB /6dB /7dB /8dB /10dB /13dB /15dB /20dB

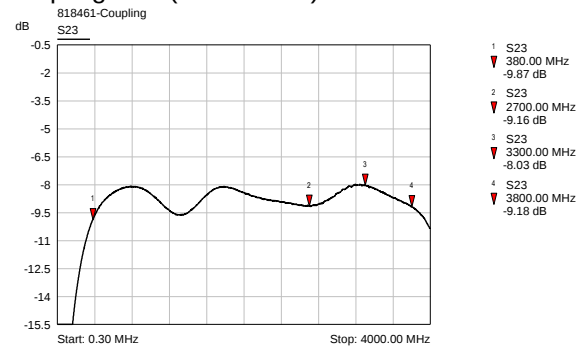
Insertion Loss (BN 818460):



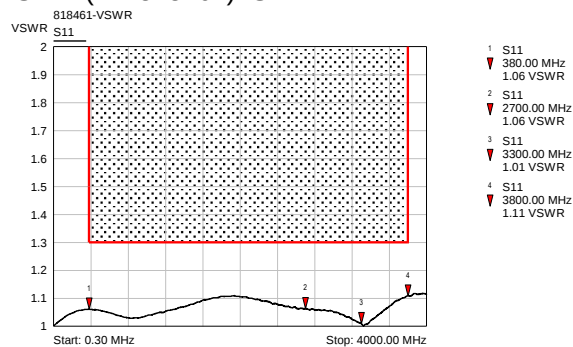
Coupling 8dB (BN 818461): S21



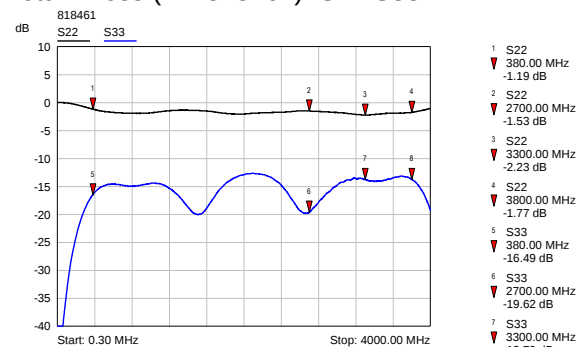
Coupling 8dB (BN 818461): S23



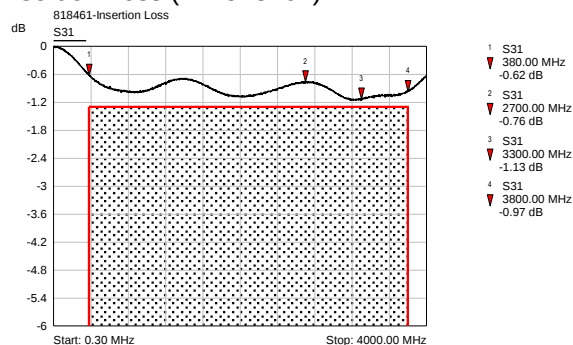
VSWR (BN 818461): S11



Return Loss (BN 818461): S22 S33

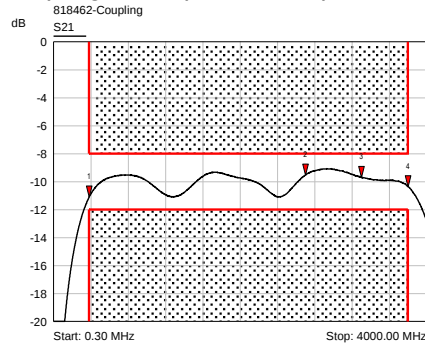


Insertion Loss (BN 818461):



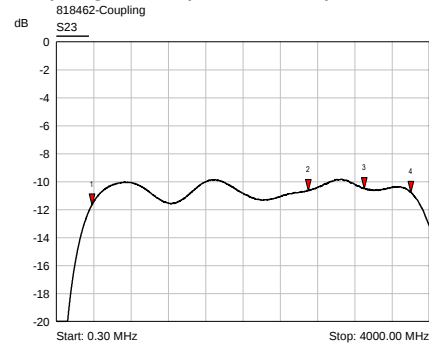
Asymmetric Splitters 4.8dB /6dB /7dB /8dB /10dB /13dB /15dB /20dB

Coupling 10dB (BN 818462): S21



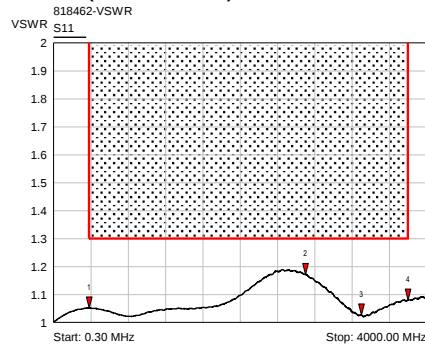
- 1 S21
380.00 MHz
-11.12 dB
- 2 S21
2700.00 MHz
-9.54 dB
- 3 S21
3300.00 MHz
-9.70 dB
- 4 S21
3800.00 MHz
-10.37 dB

Coupling 10dB (BN 818462): S23



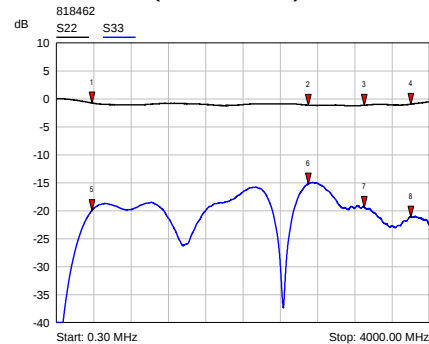
- 1 S23
380.00 MHz
-11.67 dB
- 2 S23
2700.00 MHz
-10.63 dB
- 3 S23
3300.00 MHz
-10.49 dB
- 4 S23
3800.00 MHz
-10.77 dB

VSWR (BN 818462): S11



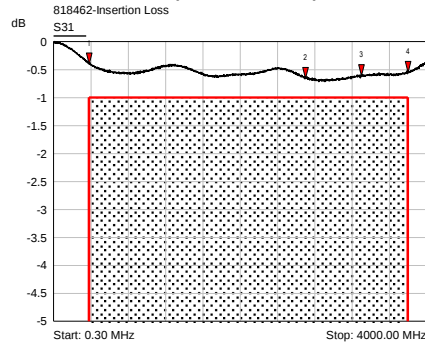
- 1 S11
380.00 MHz
1.05 VSWR
- 2 S11
2700.00 MHz
1.17 VSWR
- 3 S11
3300.00 MHz
1.03 VSWR
- 4 S11
3800.00 MHz
1.08 VSWR

Return Loss (BN 818462): S22 S33



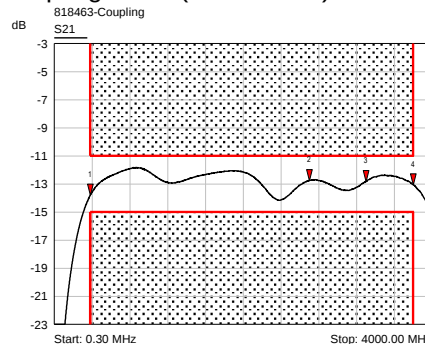
- 1 S22
380.00 MHz
-0.74 dB
- 2 S22
2700.00 MHz
-1.14 dB
- 3 S22
3300.00 MHz
-1.17 dB
- 4 S22
3800.00 MHz
-0.98 dB
- 5 S33
380.00 MHz
-20.01 dB
- 6 S33
2700.00 MHz
-15.27 dB
- 7 S33
3300.00 MHz
-19.38 dB
- 8 S33
3800.00 MHz
-21.16 dB

Insertion Loss (BN 818462):



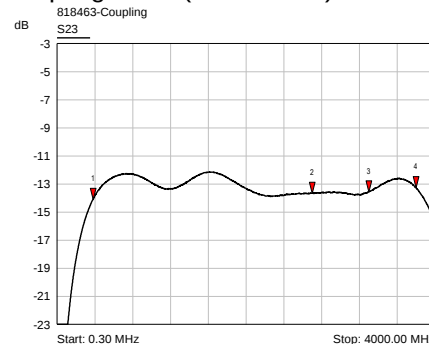
- 1 S31
380.00 MHz
-0.40 dB
- 2 S31
2700.00 MHz
-0.66 dB
- 3 S31
3300.00 MHz
-0.61 dB
- 4 S31
3800.00 MHz
-0.55 dB

Coupling 13dB (BN 818463): S21



- 1 S21
380.00 MHz
-13.82 dB
- 2 S21
2700.00 MHz
-12.76 dB
- 3 S21
3300.00 MHz
-12.82 dB
- 4 S21
3800.00 MHz
-13.05 dB

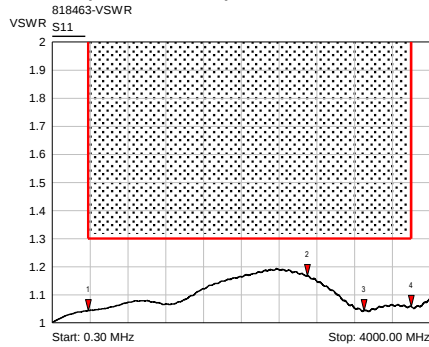
Coupling 13dB (BN 818463): S23



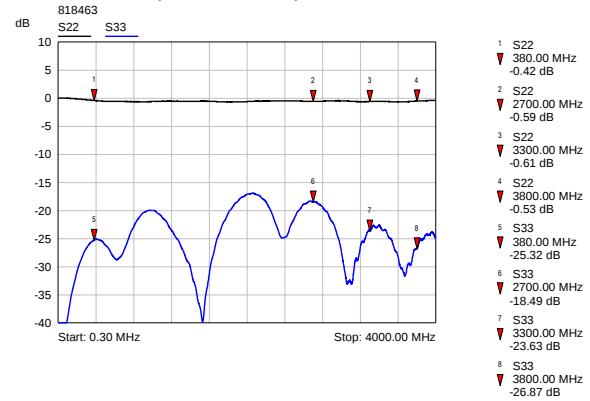
- 1 S23
380.00 MHz
-14.09 dB
- 2 S23
2700.00 MHz
-13.66 dB
- 3 S23
3300.00 MHz
-13.55 dB
- 4 S23
3800.00 MHz
-13.27 dB

Asymmetric Splitters 4.8dB /6dB /7dB /8dB /10dB /13dB /15dB /20dB

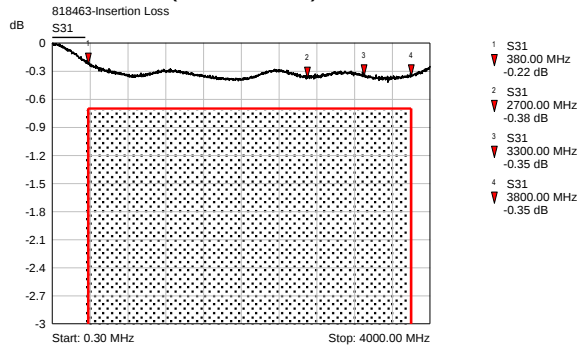
VSWR (BN 818463): S11



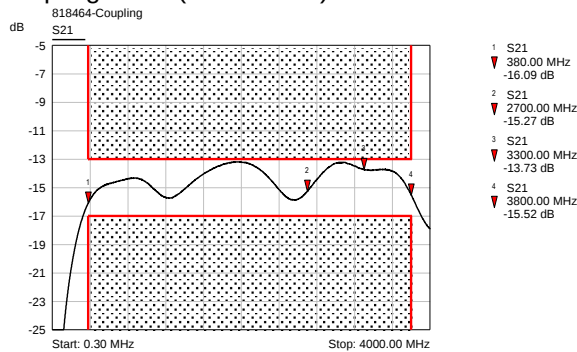
Return Loss (BN 818463): S22 S33



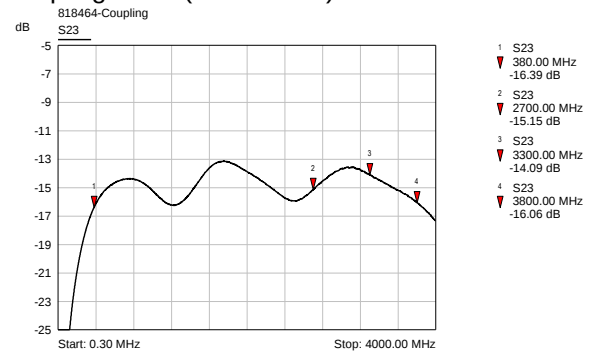
Insertion Loss (BN 818463):



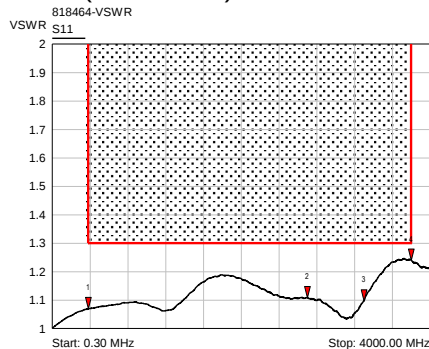
Coupling 15dB (BN 818464): S21



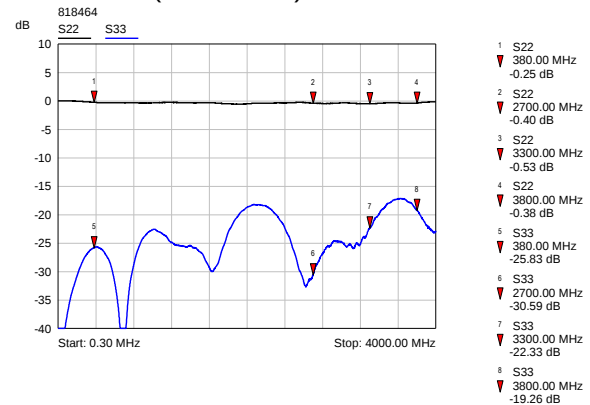
Coupling 15dB (BN 818464): S23



VSWR (BN 818464): S11

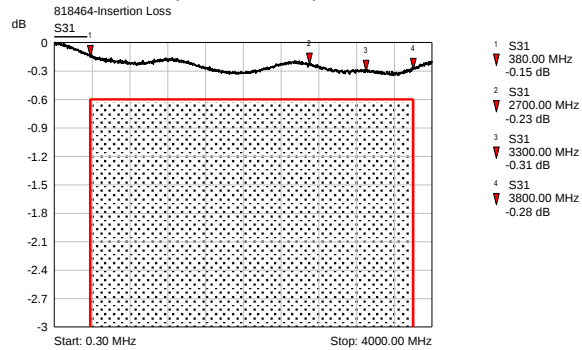


Return Loss (BN 818464): S22 S33

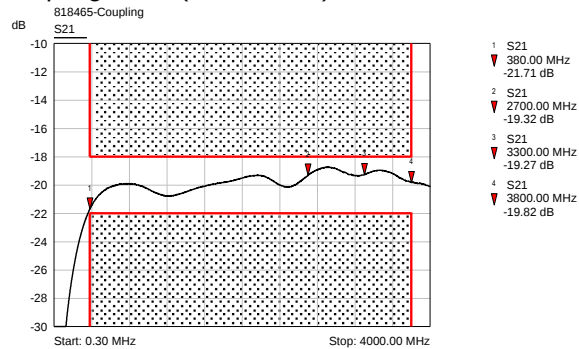


Asymmetric Splitters 4.8dB /6dB /7dB /8dB /10dB /13dB /15dB /20dB

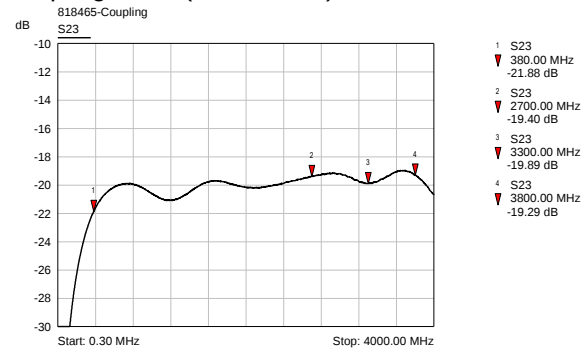
Insertion Loss (BN 818464):



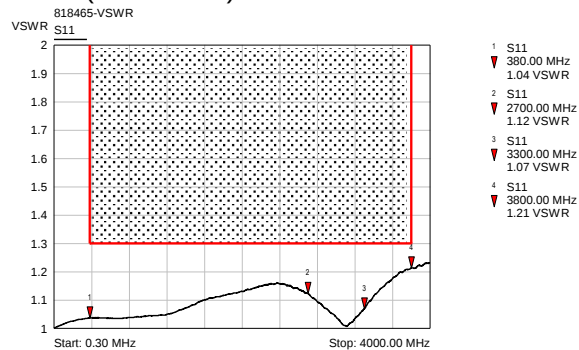
Coupling 20dB (BN 818465): S21



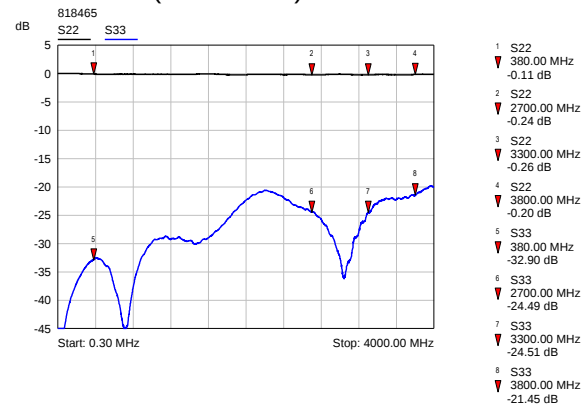
Coupling 20dB (BN 818465): S23



VSWR (BN 818465): S11



Return Loss (BN 818465): S22 S33



Insertion Loss (BN 818465):

