



Precision Broadband Matching Transformer

50 ohms to 75 ohms

Model - MT-50/75 (5 to 1000 MHz)

- Designed to match 50 ohm devices to 75 ohm devices
- Application: using a RF analyzer (50 ohms) to measure a device with 75 ohms impedance
- Insertion Loss: < 0.6 dB @1000 MHz
- Operating Bandwidth (5—1000 MHz standard)
- Also available for 5 - 1500 MHz operation
- Rugged and compact casing, RF shielded



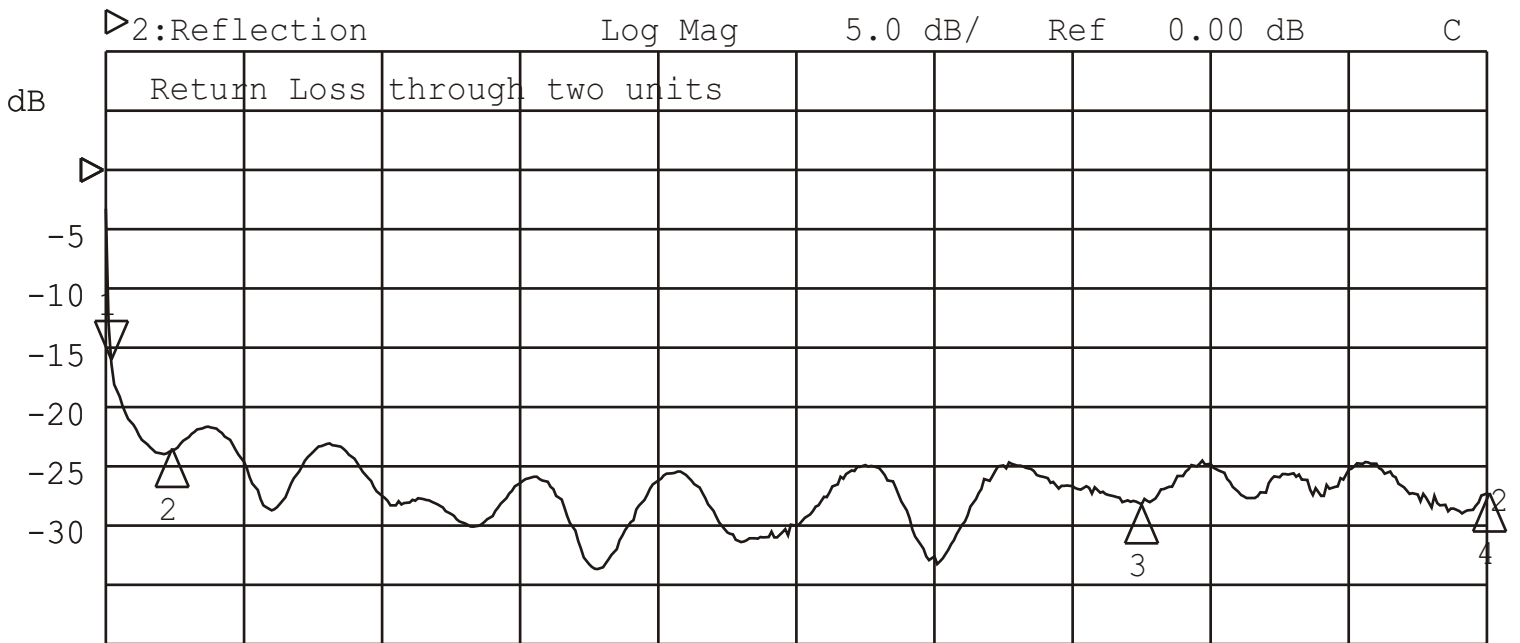
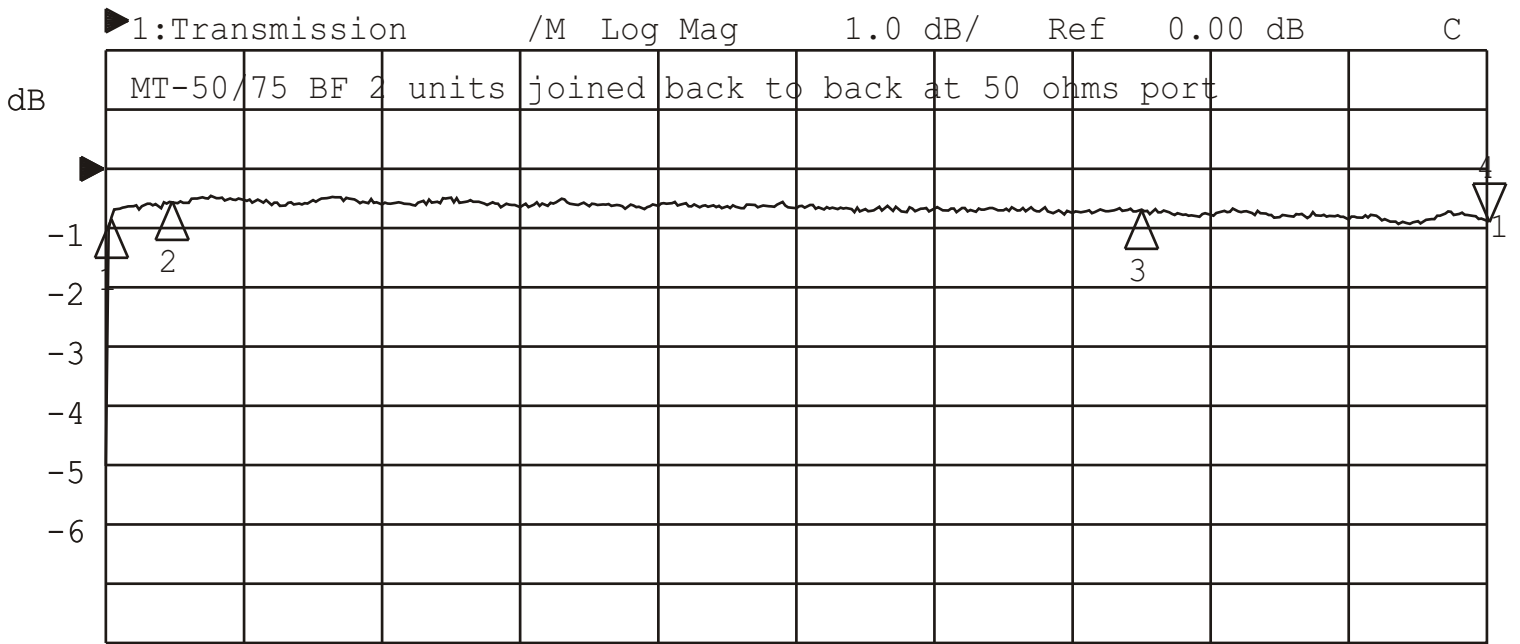
MT 50/75 Standard chassis

Specifications:

Frequency Range	5-10 MHz	10 to 870 MHz	900-1000 MHz
Insertion Loss (dB):	0.25	0.45	0.6
Return Loss (dB) - 50 ohms:	18 (VSWR 1.28)	22 (VSWR 1.17)	20 (VSWR 1.19)
Return Loss (dB) - 75 ohms:	18 (VSWR 1.28)	22 (VSWR 1.17)	20 (VSWR 1.19)
RF Power Handling:	Up to 10 Watt		
Dimensions (in):	2.75L x 0.75D x 1.0H		
Ship Weight (lbs):	0.25		
Connectors - 50 ohm port:	BNC, SMA, or N type, female (inquire for availability for male end)		
Connectors - 75 ohm port:	F-female - standard , F-male and BNC female available		

Model	Connectors*
MT-50/75 BF	50 Ω BNC (f) and 75 Ω "F" female
MT-50/75 BF(m)	50 Ω BNC (f) and 75Ω "F" male
MT-50/75 BB	50 Ω BNC (f) and 75 Ω BNC (f)
MT-50/75 B(m)B	50 Ω BNC (m) and 75 Ω BNC (f)

* Special Order for N or SMA



1:Mkr (MHz)		dB	2:Mkr (MHz)		dB
1:	5.0000	-0.841	1>	5.0000	-15.953
2:	50.0000	-0.574	2:	50.0000	-23.606
3:	750.0000	-0.693	3:	750.0000	-28.200
4>	1000.0000	-0.875	4:	1000.0000	-27.298

▷1:Off

▶2:Reflection

Log Mag

5.0 dB/

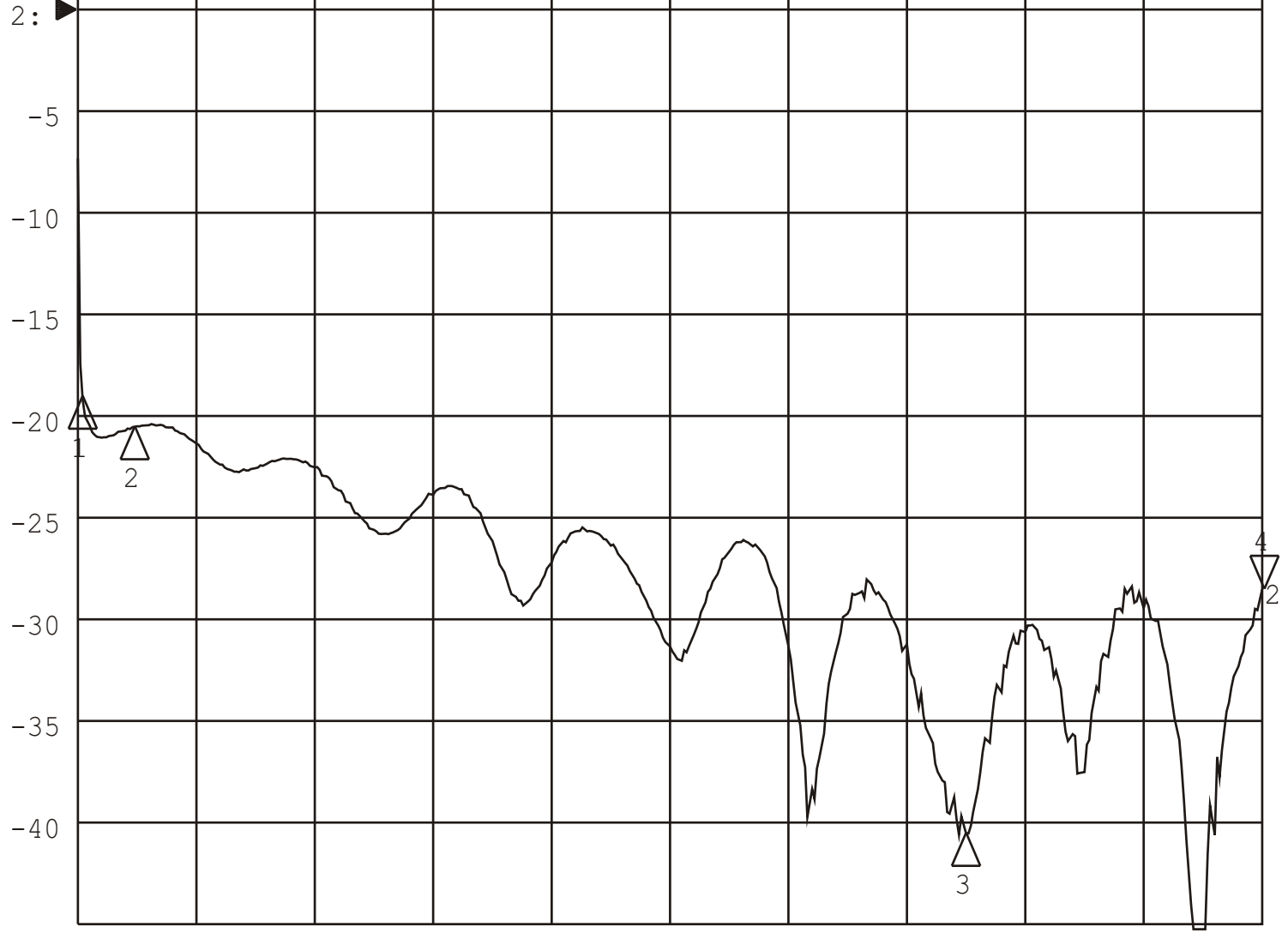
Ref

0.00 dB

C

dB

MT-50/75 BF 75 ohms port with 50 ohms termination
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Start 0.300 MHz

Stop 1 000.000 MHz

1:Mkr (MHz)	dB	2:Mkr (MHz)	dB
		1: 5.0000	-18.987
		2: 50.0000	-20.511
		3: 750.0000	-40.527
		4> 1000.0000	-28.521

▷1:Off

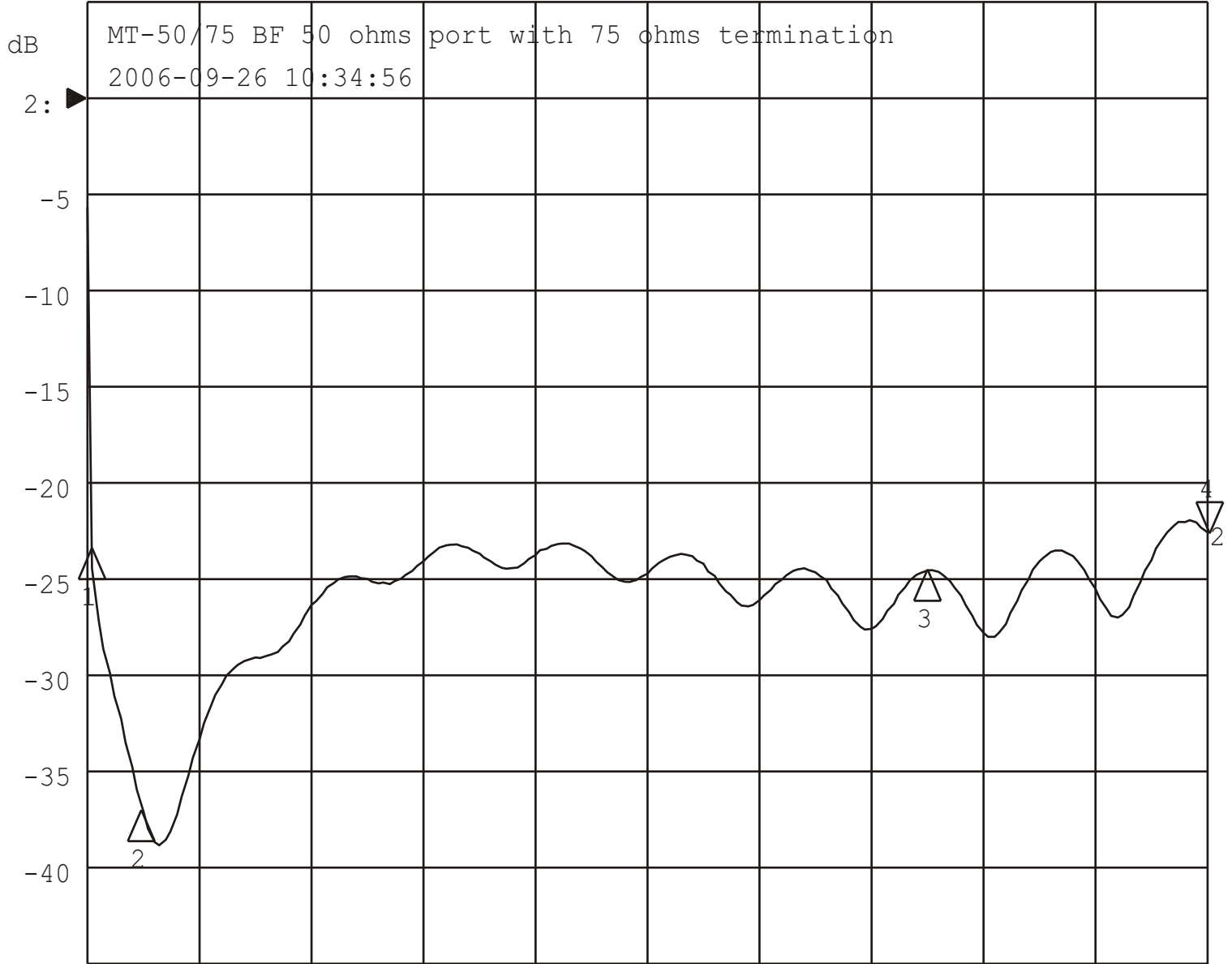
▶2:Reflection

Log Mag

5.0 dB/

Ref

0.00 dB



Start 0.300 MHz

Stop 1 000.000 MHz

1:Mkr (MHz)	dB	2:Mkr (MHz)	dB
		1: 5.0000	-23.320
		2: 50.0000	-37.029
		3: 750.0000	-24.551
		4> 1000.0000	-22.579