Precision 50 ohms to 75 ohms Matching Transformer
Model MT-50/75 (5 to 1000 MHz)

Description

MT-50/75 is designed to impedance match a 75 ohm device to 50 ohms device. It is used to minimize mismatch and signal reflection. Example applications: test and measurement - test 75 ohms device using 50 ohms RF analyzer with a pair of MT 50/75s; Impedance match 50 ohms antenna to 75 ohms receiver using one MT in line.MT-50/75 is a cost-efficient solution to convert a 75 ohm signal for a 50 ohm measurement or transformation purposes, or vice versa. It does this with good return loss to improve measurement accuracy. A further advantage of this matching transformer is that it features a low through loss, preserving much more of your input signal than a matching pad (6 dB) would. Optional MT 50/75 models for 5 to 1500 MHz and 10 to 2000 MHz are available for some connector configurations.

MT 50/75 Compact, Rugged, RF shielded casing

Specifications: MT-50/75

Frequency Range (MHz)	5-15	20 to 870	900-1000
Insertion Loss (dB):	0.25	0.5	0.65
Return Loss (dB) - 50 ohms:	22 (VSWR 1.17)	25 (VSWR 1.12)	25 (VSWR 1.12)
Return Loss (dB) - 75 ohms:	20 (VSWR 1.22)	25(VSWR 1.12)	25 (VSWR 1.12)
RF Power Handling:	Up to 10 Watt		
Dimensions (in):	2.75L x 0.75D x 1.0H (with connectors)		Weight (lbs): 0.15
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		
MT-50-75 (1000 to 1500 MHz) *	19 dB R.L. (VSWR 1.28); Insertion Loss: .75 dB from 1000 to 1500 MHz		
MT-50/75 (1500 to 2000 MHz) *	18 dB R.L. (VSWR 1.28); Insertion Loss: 1.0 dB from 1000 to 2000 MHz		

Example Models	Connectors*
MT-50/75 BfFf	50 Ω BNC female and 75 Ω F female
MT-50/75 BfFm	50 Ω BNC female and 75Ω F male
MT-50/75 SfBf	50 Ω SMA female and 75 Ω BNC female
MT-50/75 NmBf	50 Ω N male and 75 Ω BNC female
MT-50/75 NfBf 1.5G	50 Ω N (f), 75 Ω BNC female with 1500 MHz BW
MT-50/75 SfFm2.0G	50 Ω SMA(f), 75 Ω F female with 2000 MHz BW

* Special Order for MT 50/75 for 5-1500 MHz, 10-2000MHz —inquire