HIGH FREQUENCY BALUN ADAPTER

For 150 Ω Fibre Channel , 100 Ω Gigabit Ethernet and 78 Ω High Speed 1553. Ruggedized





- Transforms a balanced differential signal to a 50 Ω, grounded, unbalanced signal for testing differential cable
- Designed for standard test equipment with SMA connectorsWide bandwidth 1.0 MHz – 1.2 GHz
- 😷 Operating temperature range from 0° C to 70° C.
- Moisture Sensitivity Level: 1

Electrical Specifications @ 25°C — Operating Temperature from 0° C to +70° C											
Part Number*	Impedance (Ω)	Irated (A)	Insertion Loss (dB MAX)	Return Loss (dB MIN)							
	Unbalanced	Balanced	1.0 MHz - 1.2 GHz	1.0 MHz - 1.2 GHz							
HFB050150	50	150	-2	15							
HFB050100	50	100	-2	15							
HFB050078	50	78	-2	15							



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Application Notes

The Specialty Components Division has developed a high frequency BALUN for test and measurement applications. Wide bandwidth and high frequency response makes thisdevice ideal for differential mode measurement in high speed applications such as Fibre Channel, Gigabit Ethernet and next generation MIL-STD-1553. The BALUN allows design engineers to characterize differential mode devices using single-ended test equipment as shown below.





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T _{SMIN} (°C)	T _{SMAX} (°C)	T _L (°C)	T _P (°C MAX)	t _S (s)	t _L (s)	t _P (s MAX)	Ramp-up rate (T _L to T _P)	Ramp-down rate (T _P to T _L)	Time 25°C to peak temperature (s MAX)
100	150	183	225	60-120	60-150	20	3°C/s MAX	6°C/s MAX	360

Notes:

1. All temperatures measured on the package leads.

2. Maximum times of reflow cycle: 2.

For More Information

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3