HIGH FREQUENCY BALUN ADAPTER

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

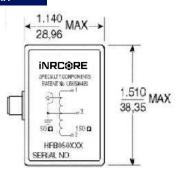


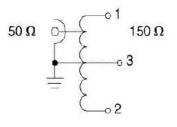
- $\ \ \, \ \ \,$ Transforms a balanced differential signal to a 50 Ω , grounded unbalanced signal for testing differential cable
- Designed for standard test equipment with SMA connectors
- Wide bandwidth 1.0 MHz − 1.2 GHz
- Moisture Sensitivity Level: 1

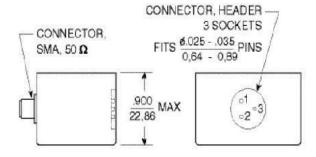
Electrical Specifications @ 25 $^{\circ}$ C – Operating Temperature $-$ 0 $^{\circ}$ C to $+70$ $^{\circ}$ C				
Part Number*	Impedance (Ω)	Irated (A)	Insertion Loss (dB MAX) 1.0 MHz - 1.2 GHz	Return Loss (dB MIN) 1.0 MHz - 1.2 GHz
	Unbalanced	Balanced		
HFB050150	50	150	-2	15
HFB050100	50	100	-2	15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

Mechanical Electrical Schematic

HFB050XXX







Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified, all tolerances are: $\pm \frac{.010}{0.25}$



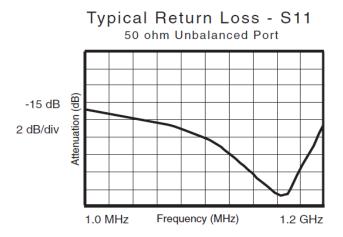
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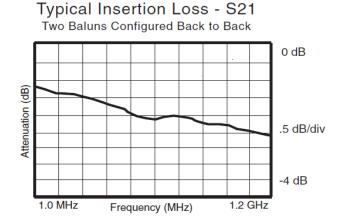
For 150Ω Fibre Channel , 100Ω Gigabit Ethernet, and 78Ω High Speed 1553.



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.





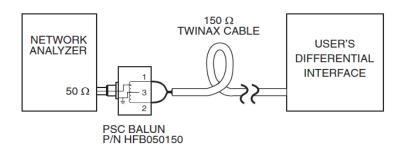
NETWORK ANALYZER
CH-1 CH-2

DUT #1 DUT #2

Insertion loss S21 is measured with two units connected back to back as shown.

Note 1: Correct value of S21 for each DUT will be 1/2 of the value shown in graph.

Note 2: Return loss S11 is measured on 50 ohm port with 150 ohms termination on balance port.





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