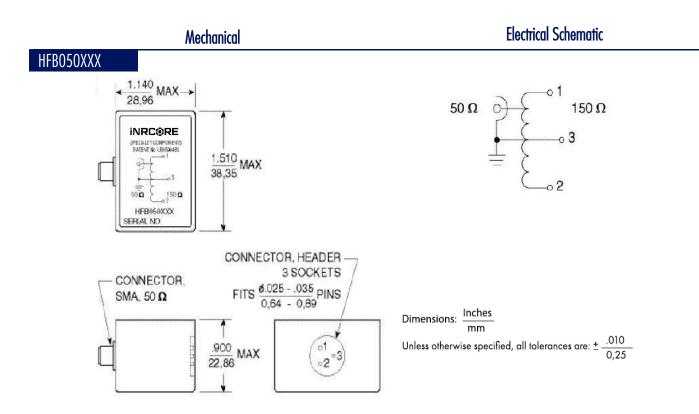
**INRCORE** 

- $\bullet$  Transforms a balanced differential signal to a 50  $\Omega$ , 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 °C – Operating Temperature – 0 °C to +70 °C											
Part Number*	Impedance ( $\Omega$ )	Irated (A)	Insertion Loss (dB MAX)	Return Loss (dB MIN) 1.0 MHz - 1.2 GHz							
	Unbalanced	Balanced	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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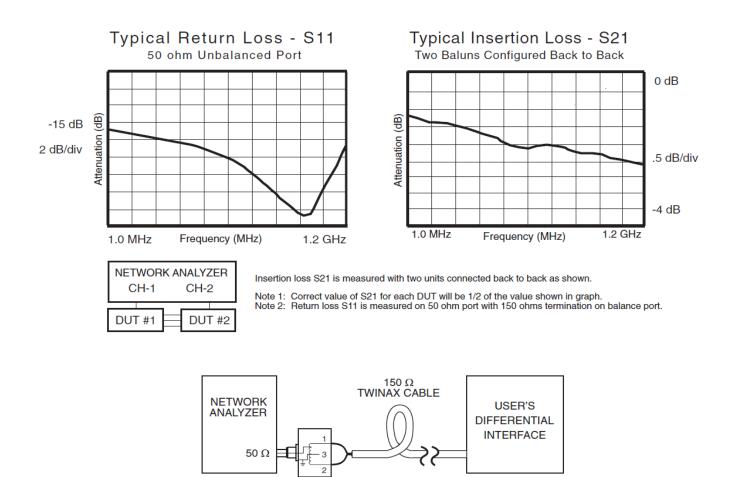
## HIGH FREQUENCY BALUN ADAPTER

For 150  $\Omega$  Fibre Channel , 100  $\Omega$  Gigabit Ethernet, and 78  $\Omega$  High Speed 1553.

# **INRC©RE**

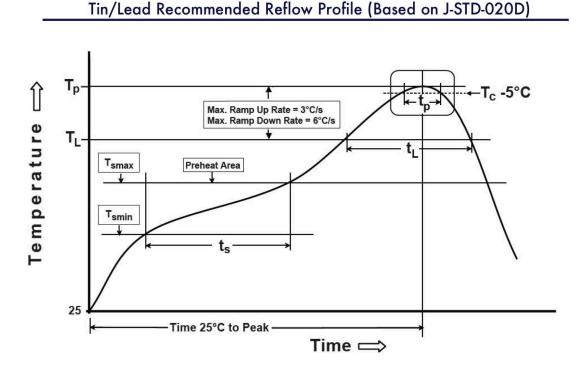
### Application Notes

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.



PSC BALUN P/N HFB050150





T <sub>SMIN</sub> (°C)	T <sub>SMAX</sub> (°C)	T <sub>L</sub> (°C)	T <sub>P</sub> (°C MAX)	t <sub>S</sub> (s)	t <sub>L</sub> (s)	t <sub>P</sub> (s MAX)	Ramp-up rate (T <sub>L</sub> to T <sub>P</sub> )	Ramp-down rate (T <sub>P</sub> to T <sub>L</sub> )	Time 25°C to peak temperature (s MAX)
100	150	183	235	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**

iNRCORE,LLC 311 Sinclair Road Bristol, PA 19007-6812 U.S.A Tel: + 1.215.781.6400 Fax: +1.215.7816430 Global Sales Representatives and Locations: http://www.inrcore.com

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