

# HIGH FREQUENCY BALUN ADAPTOR

For: SMPTE-292M HDTV  
Ruggedized



- Transforms  $100\Omega$  balanced differential signal to  $75\Omega$ , grounded unbalanced signal
- Designed for SMPTE-292M HDTV application at 1.485GBs data rate
- Storage Temperature:  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$
- Moisture Sensitivity Level: 1

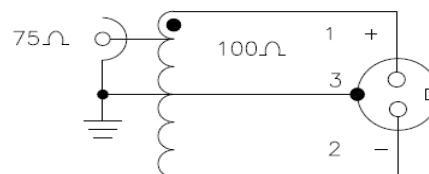
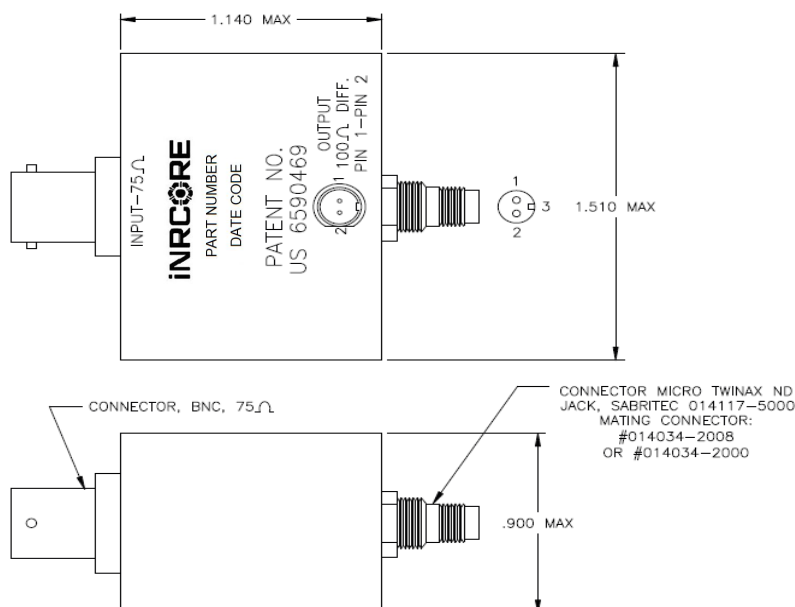
## Electrical Specifications @ $25^{\circ}\text{C}$ – Operating Temperature – $55^{\circ}\text{C}$ to $+125^{\circ}\text{C}$

Part Number	Impedance Unbalanced	Impedance Balanced	Insertion Loss db MAX. 1.485 GBs	Jitter Dj pSec. Max. 1.485 GBs, PN7
HFB075100A	75	100	-2.0	110.0
HFB075100B	75	100	-2.0	110.0
HFBLO75100A	75	100	-2.0	110.0
HFBLO75100B	75	100	-2.0	110.0

### Mechanical

### Electrical Schematic

HFB075100A



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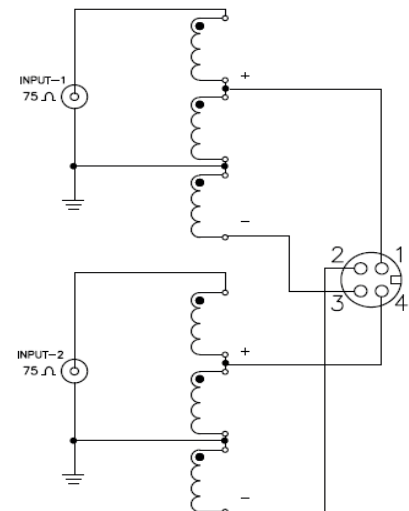
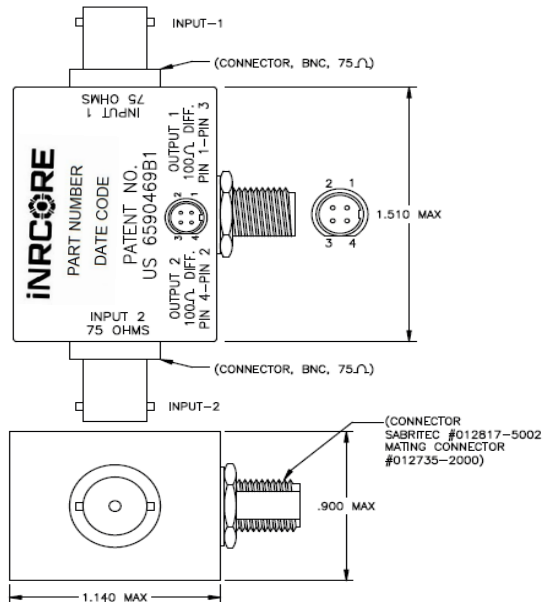
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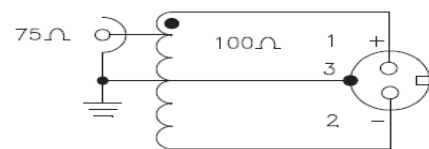
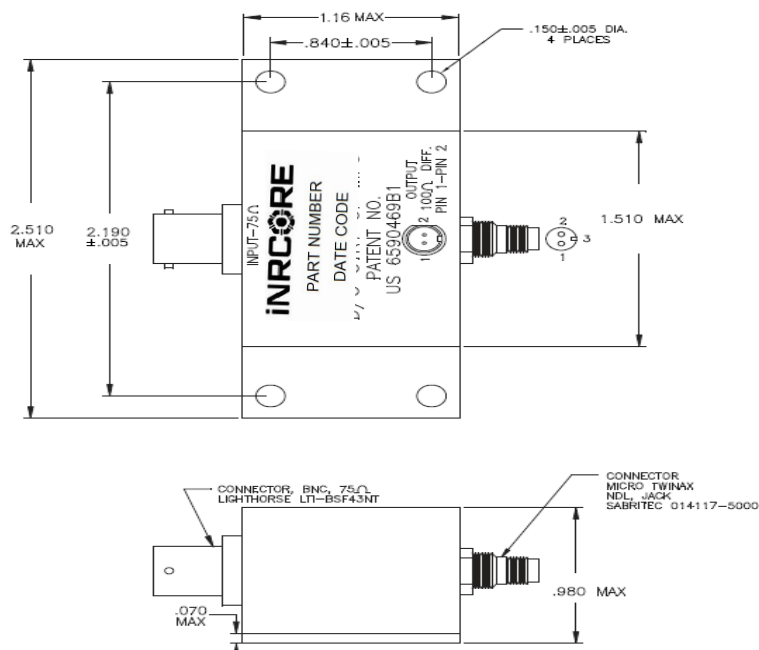
### HFBO75100B



## Mechanical

## Electrical Schematic

### HFBL075100A



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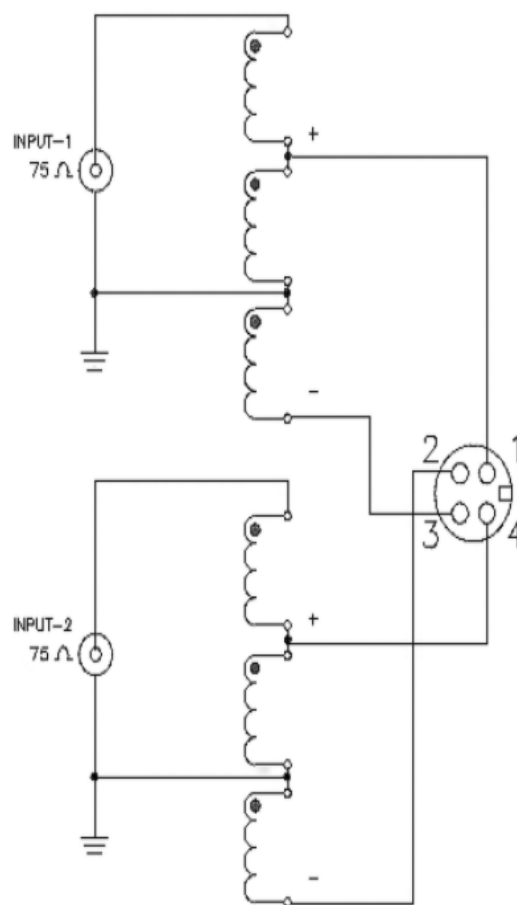
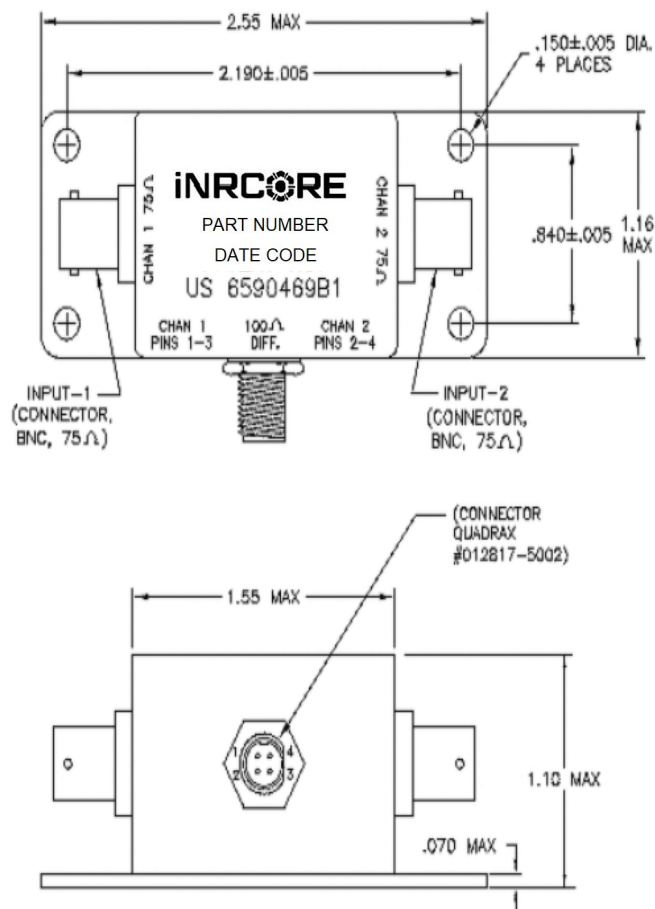
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## Mechanical

## Electrical Schematic

HFBL075100B

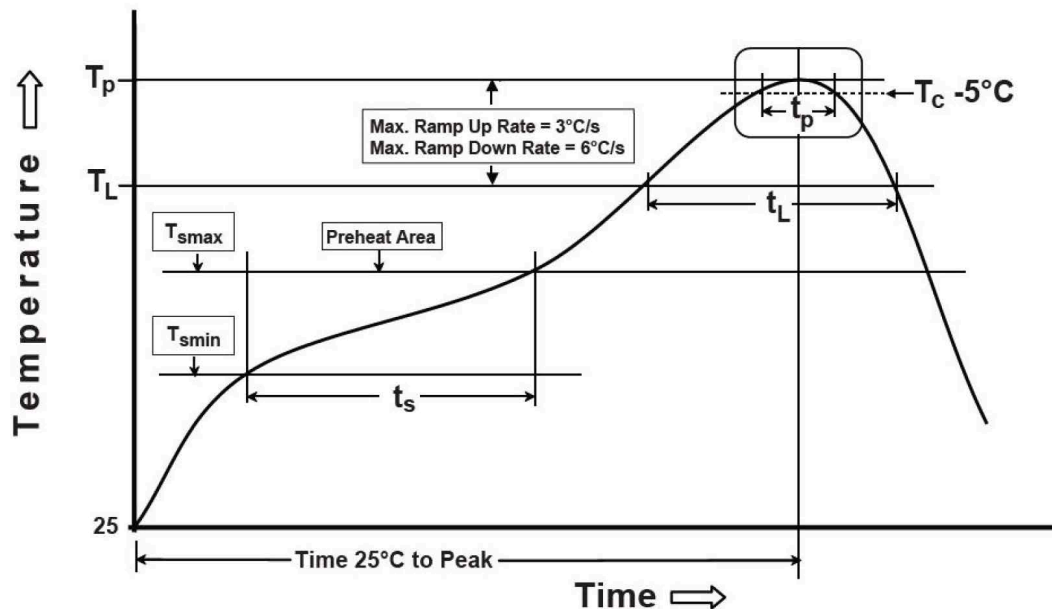


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## Tin/Lead Recommended Reflow Profile (Based on J-STD-020D)



$T_{SMIN}$ (°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	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

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