

# SMPTe DIGITAL VIDEO BALUNS

Ruggedized



- Transforms a 100Ω/150Ω balanced differential signal to a 75Ω/50Ω rounded, unbalanced signal - and vice versa (bi-directional operation)
- SMPTe 424M/425M, 2.973 and 1.485 Gbps data rates
- Moisture Sensitivity Level: 3
- Epoxy Encapsulated

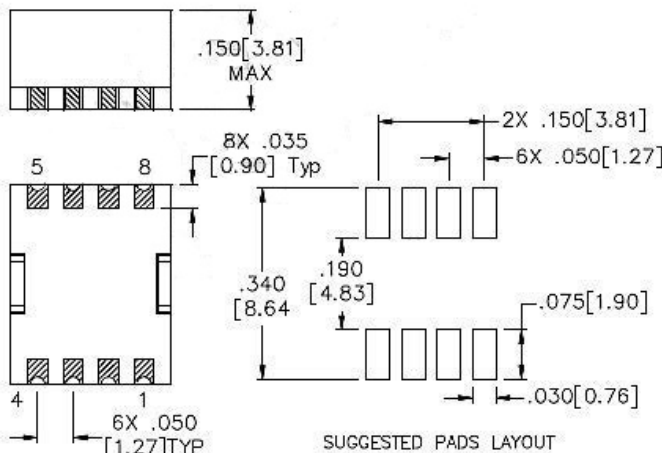
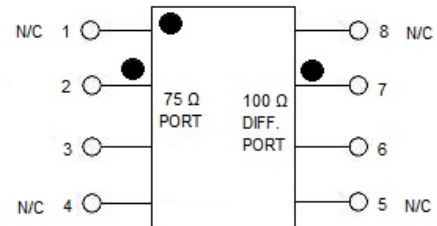
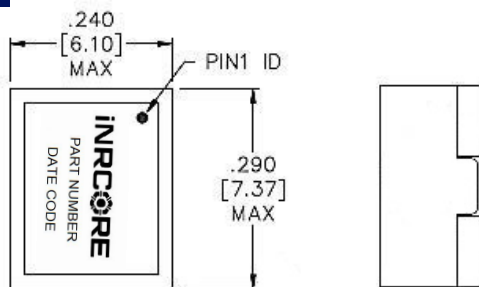
## Electrical Specifications @ 25 °C – Operating Temperature – 55°C to +125 °C

Part Number	Data Rate	Impedance Unbalanced (Ω)	Impedance Balanced (Ω)	Insertion Loss @ 1.5 GHz (dB MAX)	Return Loss @ 1.5 GHz (dB MIN)
TA-0751003G	2.973	75	100	-2	12
TA-0751503G	2.973	75	150	-2	10
TA-0501003G	2.973	50	100	-2	10
TA-075100G	1.485	75	100	-2	12
TA-075150G	1.485	75 </td <td>150</td> <td>-2</td> <td>10</td>	150	-2	10
TA-050100G	1.485	50	100	-2	10

### Mechanical

### Electrical Schematic

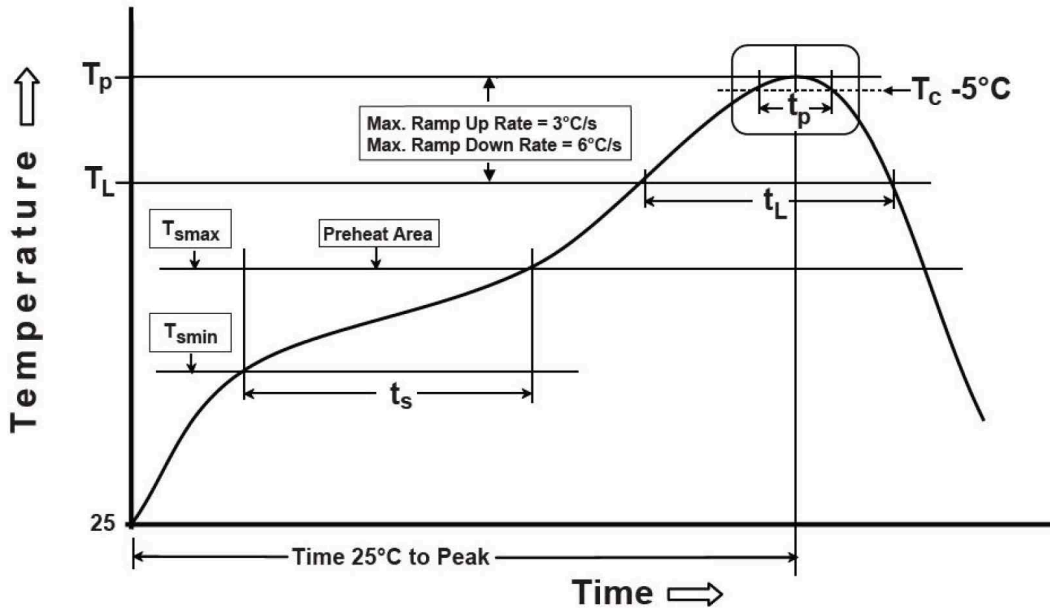
1TA-XXXXXXG



Dimensions: inches[mm]  
 Unless otherwise specified,  
 all tolerances are ± .010[0.25]  
 Weight..... 0.8g  
 Tube..... 65  
 Tape and Reel.....TBD



## 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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