

Ruggedized



- | Electrical Specifications @ 25°C | | | | | | | | | | | | | | | | | |
|----------------------------------|-------------------------|--------|--------|---------|----------------------|--------|--------|---------|--------------------|--------|---------|-----------------------------|--------|---------|-----------------------------|--------|---------|
| Part Number | Insertion Loss (dB MAX) | | | | Return Loss (dB MIN) | | | | Crosstalk (dB MIN) | | | CM to CM Rejection (dB MIN) | | | DM to CM Rejection (dB MIN) | | |
| | 0.10 MHz | 30 MHz | 60 MHz | 100 MHz | 30 MHz | 60 MHz | 80 MHz | 100 MHz | 30 MHz | 60 MHz | 100 MHz | 30 MHz | 60 MHz | 100 MHz | 30 MHz | 60 MHz | 100 MHz |
| 1000B-5001F | 1.2 | 1.2 | 1.2 | 1.2 | 18 | 12 | 10 | 8 | 43 | 37 | 33 | 40 | 35 | 30 | 43 | 37 | 30 |
| 1000B-5001FX | 1.4 | 1.4 | 1.4 | 1.4 | 18 | 12 | 10 | 8 | 43 | 37 | 33 | 40 | 35 | 30 | 43 | 37 | 33 |
| 1000B-5002F | 1.2 | 1.2 | 1.2 | 1.2 | 18 | 14 | 12 | 10 | 43 | 37 | 33 | 40 | 35 | 30 | 43 | 37 | 33 |
| 1000B-5002FX | 1.2 | 1.2 | 1.2 | 1.2 | 18 | 14 | 12 | 10 | 43 | 37 | 33 | 40 | 35 | 30 | 43 | 37 | 33 |
| 1000B-5003F | 1.2 | 1.2 | 1.2 | 1.2 | 18 | 14 | 11 | 9 | 43 | 37 | 33 | 40 | 35 | 30 | 43 | 37 | 33 |
| 1000B-5003FX | 1.2 | 1.2 | 1.2 | 1.2 | 18 | 14 | 11 | 9 | 43 | 37 | 33 | 40 | 35 | 30 | 43 | 37 | 33 |

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Dimensions: inch [mm]
Tolerance (unless otherwise specified): ± 0.010 [0.25]



CHANNEL 4



C H I P S I D E M E D I A S I D E
 Td ↔ Mx
 Td ↔ Mx
 Td ↔ Mx
 Td ↔ Mx
 All channels are in phase between input and output

Dimensions: inch [mm]
Tolerance (unless otherwise specified): ± 0.010 [0.25]



CHANNEL 8



C Td $\longleftrightarrow$ Mx M
 H Td $\longleftrightarrow$ Mx M
 I Td $\longleftrightarrow$ Mx M
 P Td $\longleftrightarrow$ Mx M
 S Td $\longleftrightarrow$ Mx M
 I Td $\longleftrightarrow$ Mx M
 D Td $\longleftrightarrow$ Mx M
 E Td $\longleftrightarrow$ Mx M

All channels are in phase between input and output

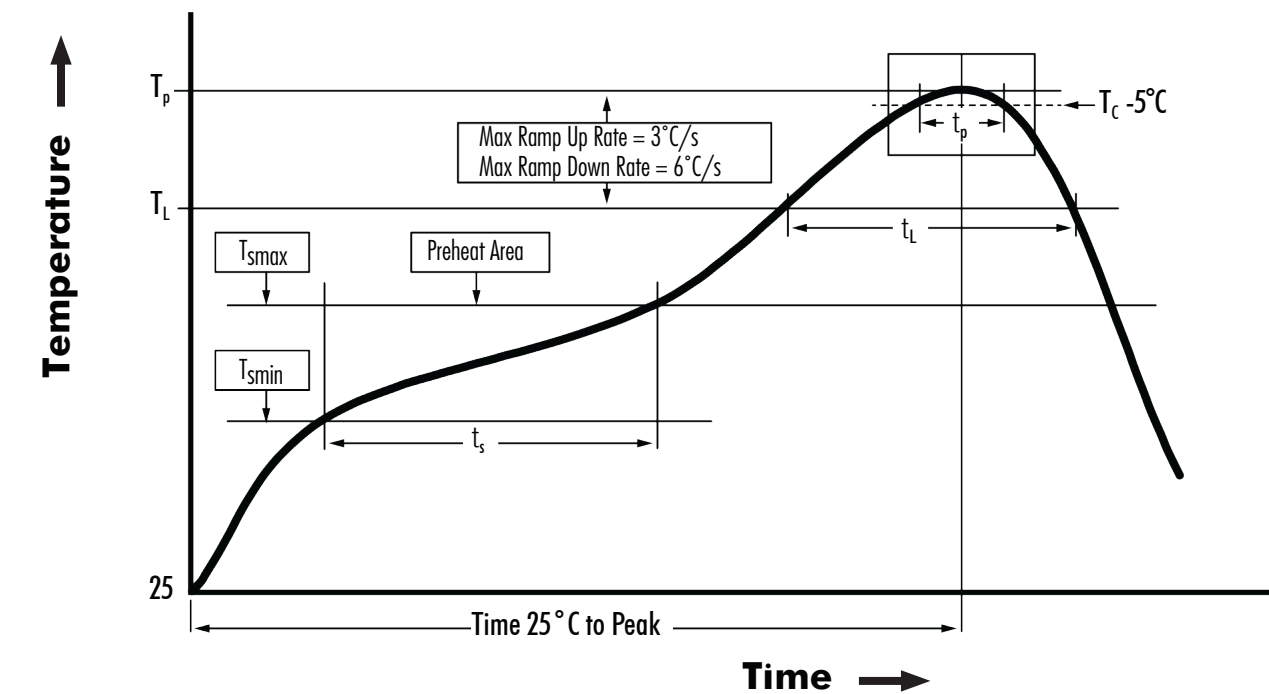


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1000BASE-T SINGLE & DUAL PORT
TRANSFORMER MODULES

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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)
Tin/Lead Profile									
100	150	183	235	60 - 120	60 - 150	20	3°C/s MAX	6°C/s MAX	360
Non-Lead Profile									
150	200	217	245	60 - 120	60 - 150	30	3°C/s MAX	6°C/s MAX	480

NOTES:

1. All temperatures measured on the package leads.
2. Maximum number of reflow cycles not to exceed 2.
3. Reflow cycle applies only to surface mount parts.



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