10G BASE-T TRANSFORMER MODULE





Compliant with IEEE 802.3 standards
 Operating Temperature: -40°C to +85°C

• Moisture Sensitivity Level: 3

• Terminal Finish: Sn/Pb

Electrical Specifications @ 25°C															
		on Loss MAX)	Return Loss (dB MIN)						Crosstalk (dB MIN)				DM to CM Rejection (dB MIN)		
Part Number	100 kHz	500 kHz	1 MHz	10 MHz	100 MHz	300 MHz	400 MHz	500 MHz	1 MHz	30 MHz	100 MHz	400 MHz	1 MHz	250 MHz	500 MHz
10GB-6001	3.0	1.80	22	24	18	14	10	8	65	42	35	25	40	30	22

NOTES:

1. Add suffix "NL" for RoHS compliant version; i.e. 10GB-6001 becomes 10GB-6001NL. NL parts have 100% SN Lead Finish (MSL:4)

Electrical Schematics Mechanicals Dimensions: inch [mm] Tolerance (unless otherwise specified): ±0.010 [0.25] 10GB-6001 (TCT1) 1 o 24 (MCT1) 0.700 [17.78] MAX .0000000000000 (TD1+) 2 • 23 (MX1+) CHANNEL 1 m 888888888888 L www 0.500 [12.70] rww 0.490 [12.45] (TD1-) 3 o 22 (MX1-) 000000000000 (TCT2) 4 ∘ 21 (MCT2) → 20 (MX2+) (TD2+) 5 24X 0.030 [0.76] ww 22X 0.050 [1.27] CHANNEL 2 24X 0.020 [0.50] orrri. 0.550 [13.97] Tuuw ¬ 19 (MX2-) (TD2-) 6 PCB PAD PATTERN (REFERENCE ONLY) 22X 0.050 [1.27] 0.235 [5.97] MAX (TCT3) 7 a 18 (MCT3) 24X 0°-8° (TD3+) 8 • 17 (MX3+) m L CHANNEL 3 0.004 [0.10] ww L_{0.010} [0.25] 24X 0.045 [1.14] (TD3-) 9 • 16 (MX3-) (TCT4) 10 a • 15 (MCT4) (TD4+) 11 14 (MX4+) 3 L CHANNEL 4 ww <u>ruuu</u> (TD4-) 12 • 13 (MX4-) LEGEND

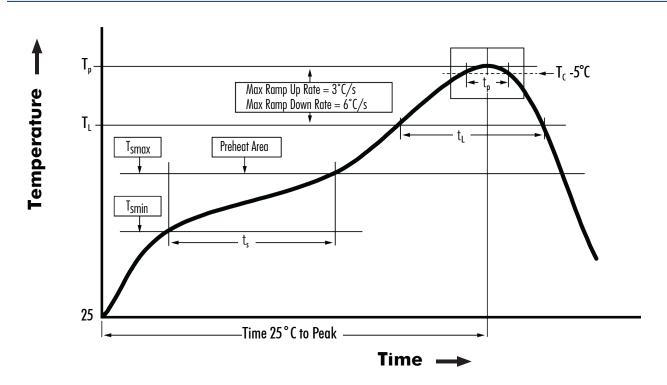


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Tin/Lead Recommended Reflow Profile (Based on J-STD-020D)



T _{smin} (°C)	T _{smax} (°C)	T _ւ (°C)	T _P (°C MAX)	† _s (s)	† _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

