

HIGH FREQUENCY MAGNETICS

T1/E1 Through Hole Transformers

TM00117

- Operates as a line-interface pulse transformer in DS1 and CEPT applications
- Designed for automatic machine placement into printed wiring boards
- Only difference between the 2745G and 2745G3 is the terminal length
- Operating temperature range: -40° C to +85° C
- Meets IEC 695, 2-2 flammability requirements
- PWB Process Capability: standard printed wiring board assembly techniques, total-immersion cleaning
- Reliability testing: Shock, vibration, temperature cycling, temperature - humidity - bias

ELECTRICAL SPECIFICATIONS AT 25° C

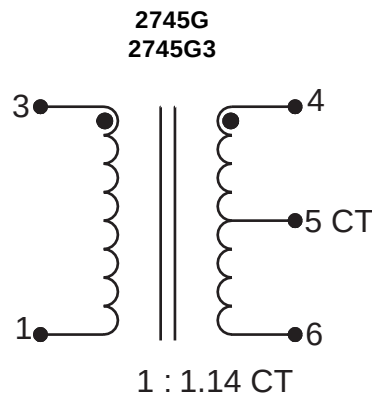
Part Number	Turns Ratio ± 2%	Inductance ¹ mH min	DCR Ω max		Leakage Inductance ² μH max	Interwinding Capacitance pF typ	Minimum Interwinding Breakdown Voltage Vrms
	(3-1) : (4-6)	(3-1)	(3-1)	(4-6)	(3-1)	(3-1) and (4-6)	(3-1) and (4-6)
2745G	1 : 1.14CT	1.75	0.95	1.1	1.3	80	1000
2745G3	1 : 1.14CT	1.75	0.95	1.1	1.3	80	1000

1. measured at 10 kHz, 0.1 V

2. measured at 100 kHz, with (4-6) shorted

Part Number	Typical Frequency and Time Response				
	Terminating Impedances	Bandwidth (3 dB)	Risetime	Overshoot	Droop (350 ns pulse)
2745G	10 Ω : 100 Ω	1 kHz - 25 MHz	14 ns	0 %	0.1%
2745G3	10 Ω : 100 Ω	1 kHz - 25 MHz	14 ns	0 %	0.1%

SCHEMATIC



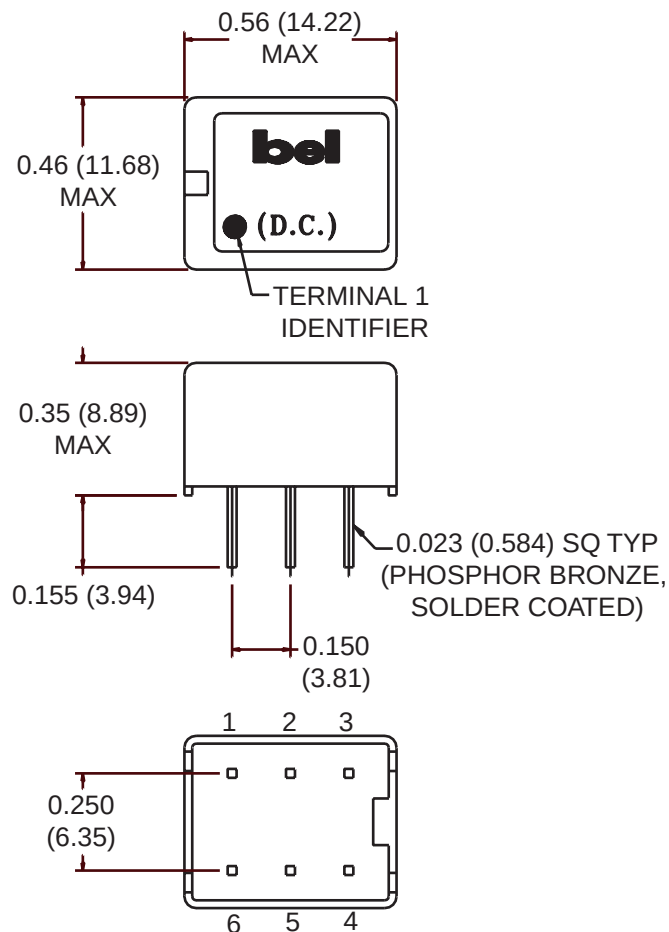
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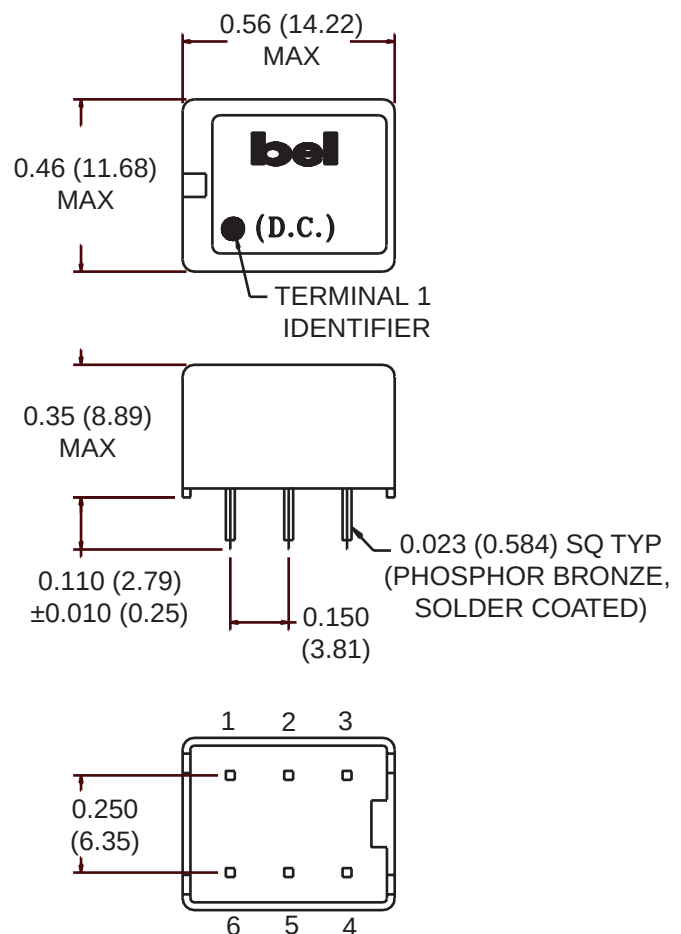
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MECHANICAL

2745G



2745G3



Unless otherwise specified, dimensions are nominal and in inches (millimeters).

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T1-40

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