

HIGH FREQUENCY MAGNETICS

T1/E1 Single Through Hole Transformers

TM9913

- Operate as pulse transformers at DS1 and CEPT rates
- Perform impedance matching and voltage transformation for line transceivers
- Qualified per Bellcore TR-TSY-000357-1
- Compatible with water-soluble flux, total-immersion cleaning and machine insertion
- Meets IEC-695, 2-2 flammability requirements

ELECTRICAL SPECIFICATIONS at 25° C

Part Number	Turns Ratio ± 2%	Primary Inductance* mH min	Leakage Inductance μH max	DCR Ω max		Interwinding Capacitance pFmax	Interwinding Breakdown Voltage Vrms min	Shielded Version
	Pri : Sec			Pri	Sec			
2745AJ2	1 : 1.07 CT	1.0	0.8	0.50	1.00	N/A	850	—
2745G3	1 : 1.14 CT	1.75	1.3	0.95	1.10	80	1000	2745AK2
2745CA2	1 : 1.36 CT	0.92	0.7	0.85	1.2	20	1000	2741H2
2745AF2	1 CT : 2 CT	3.15	3.0	1.55	3.15	23	1000	2741G2

* Measured at 10 kHz, 0.1 Vac

Lucent IC Part Number	Application	Receive	Transmit
		Bel Part Number	Bel Part Number
T7288	CEPT 75 / CEPT 120	2745AF2	2745CA2
T7289A	DS1	2745AF2	2745G3
T7290A	DS1	2745AF2	2745AJ2
	T1 / CEPT 75 / CEPT 120	2745AF2	2745CA2
T7630	DS1	2745G3	2745G3
	CEPT 75.1	2745AJ2	2745AJ2
	CEPT 75.2 / CEPT 120	2745CA2	2745CA2
T7688	CEPT 75.1	2745AJ2	2745AJ2
	CEPT 75.2 / CEPT 120	2745CA2	2745CA2
T7689	DS1	2745G3	2745G3
T7690 T7698	DS1	2745G3	2745G3
	CEPT 75.1	2745AJ2	2745AJ2
	CEPT 75.2 / CEPT 120	2745CA2	2745CA2

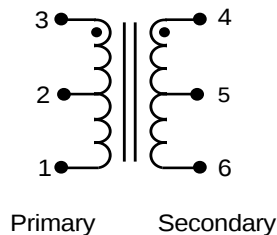
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HIGH FREQUENCY MAGNETICS

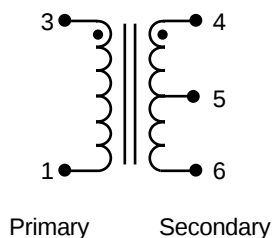
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SCHEMATICS

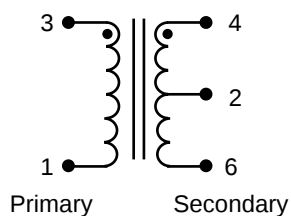
2745AF2



2745AJ2
2745G3

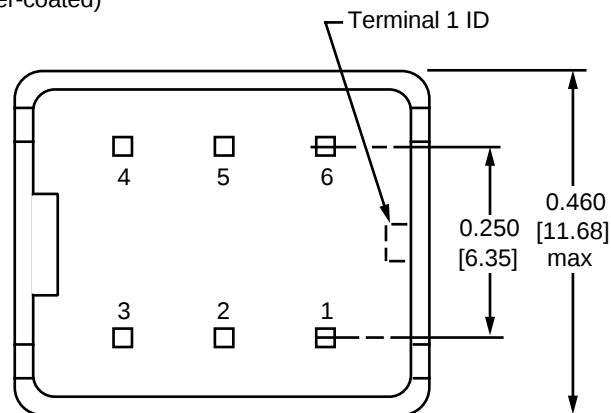
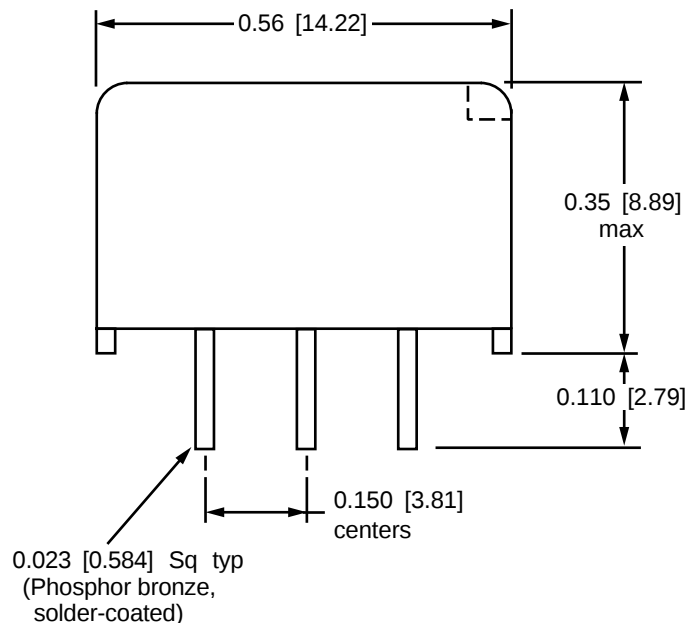


2745CA2



MECHANICAL

2745AF2
2745AJ2
2745CA2
2745G3



Note: Unless otherwise specified, dimensions are nominal and in inches [millimeters].

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