

HIGH FREQUENCY MAGNETICS

T1/E1 Miniature Surface Mount Transformers

TM00142

- Meet pulse template and return loss requirements of T1/E1 interface circuits
- Minimum interwinding breakdown voltage of 1500 Vrms
- Maximum inductance unbalance of center-tapped windings is 0.2%
- 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

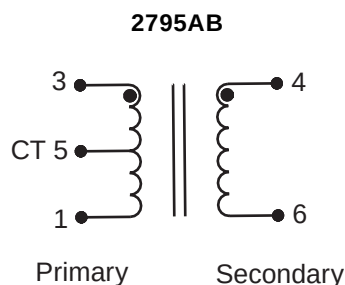
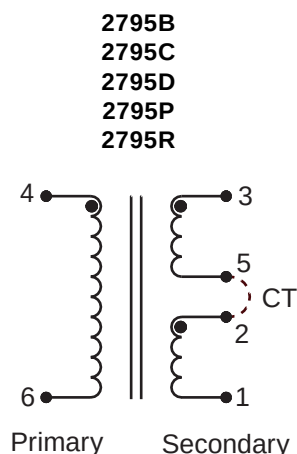
Part Number	Turns Ratio ± 1%	Primary Inductance ¹ mH min	Leakage Inductance ² μH max	DCR Ω max		Interwinding Capacitance pF typ	Surge Voltage Capability ³	
	Pri : Sec			(4 - 6)	(3 - 1)		Metallic	Longitudinal
2795R	1 : 1CT	1.5	0.85	1.6	1.7	35	3000	2500
2795D	1 : 1.08CT	1.4	0.7	1.5	1.7	35	3000	2500
2795B	1 : 1.14CT	1.6	0.8	2.2	2.6	35	2500	2500
2795P	1 : 1.26CT	1.2	0.65	1.4	1.8	35	3000	2500
2795C	1 : 1.35CT	1.3	0.8	1.9	2.6	35	2500	2500
2795AB	1CT: 2	2.5	0.8	4.3	2.2	40	2500	2500

1. Measured at 10 kHz, 0.1 Vac

2. measured at 100 kHz, 0.1 Vac

3. See Supplementary Information

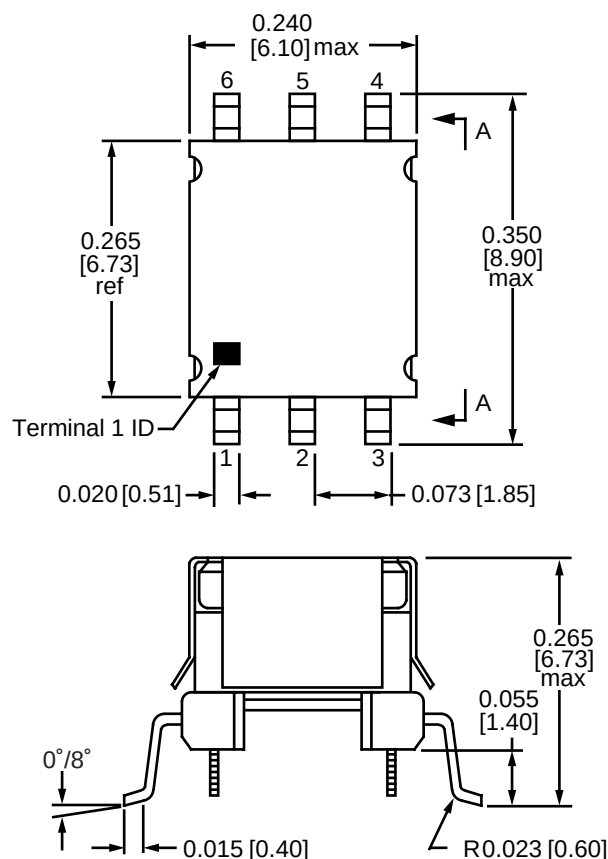
SCHEMATICS



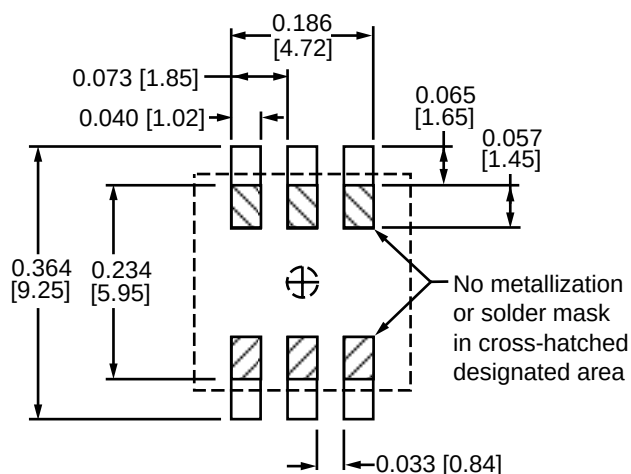
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TM00142

MECHANICAL



2795AB
2795B
2795C
2795D
2795P
2795R



Suggested PCB Pad Layout

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

Supplementary Information

Safety Agency Compatibility	Underwriters Laboratories, Inc. UL 1950
Surge Voltage Capability	10/700 μ s; 10 repetitions of alternating polarity, generator output: peak voltage, 25 Ω source
Flammability Compliance	IEC-695, 2-2 (needle flame test), materials are UL 94 VO approved
Simulation Model	SPICE computer simulation file available on request
Surface-Mount Packaging	Tape and Reel; 16 mm wide by 12 mm pitch; 13 inch OD; 4 inch ID 650 transformers per reel, maximum Meets ANSI/EIA 481-2 Carrier Tape Standards—JEDEC SO package
Terminal Lead Coplanarity	0.004 inch [0.10 mm]
PWB Process Capability	Machine placement (recommendation: locate by terminals, not body)

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