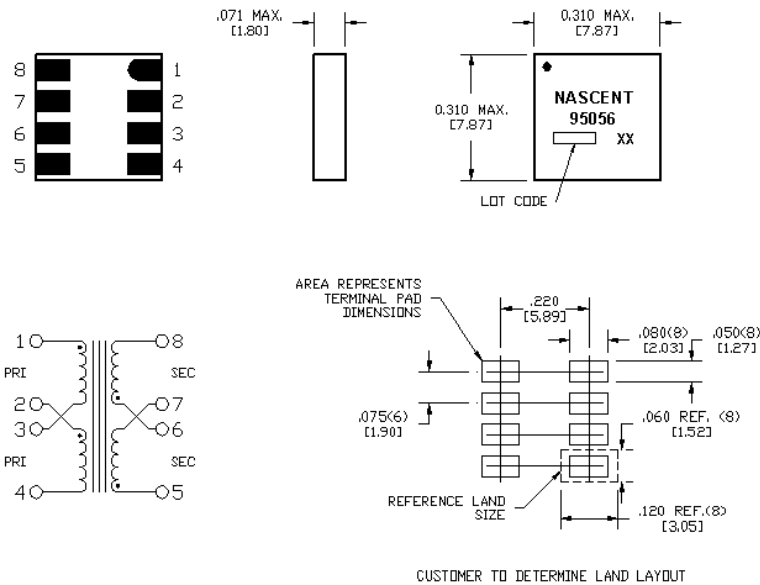
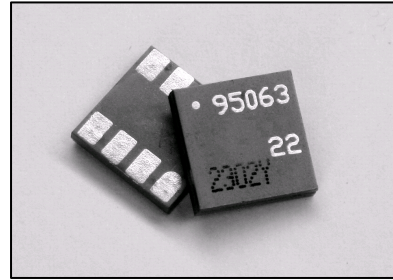


LTCC

Low Power Ceramic Transformer

95056-95063



Features

- Low profile
- Rugged package
- Self shielding
- Pick and place
- Customization available

Applications

- Isolated power supplies
- Isolated data acquisition
- Bridging ground differences
- Isolated clock/sync interface
- Process control

NASCENTTechnology, Inc. has developed a family of transformers to demonstrate what can be done with Low Temperature Co-fired Ceramic (LTCC) transformers. This includes a set of four transformers suitable for higher frequencies and with large turns ratios. A second set of four transformers is suitable for lower frequencies and has smaller turns ratios. Both sets have split primary and secondary windings that can be easily connected to adjust turns ratios. The parts are intended for low power applications and can pass as much as 1250 mW of continuous power (40°C rise) with a 15-24 V input. The dielectric breakdown rating is 500 Vrms. Typical operating frequency range is 200-1000 kHz.

Electrical Parameters

Part No	Turns Ratio	V-us Rating	Primary Resistance (1-4) Ω +/- 20%	Secondary Resistance (5-8) Ω +/- 20%	Primary Inductance (1) (1-4) μH +/- 20%	Secondary Inductance (1) (5-8) μH +/- 20%	Leakage Inductance (1,2) (1-4) μH TYP.
95056	1:1	4.5	0.64	0.64	60	60	5.4
95057	1:2	4.5	0.64	1.25	46	170	3.7
95058	1:3	4.5	0.68	4.24	56	450	3.5
95059	1:4	4.5	0.66	7.09	66	910	3.2
95060	1:0.5	9.0	3.60	0.66	280	72	17.4
95061	1:1	9.0	3.60	3.60	368	364	12.4
95062	1:1.5	9.0	3.80	4.30	280	550	9.5
95063	1:2	9.0	3.60	7.14	350	1230	8.3

- Notes: 1) 500 kHz, 0.5 VAC
 2) Terminals 2-3, 6-7 joined
 3) Dielectric rating: 500 VAC
 4) Power rating: 1250 mW

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