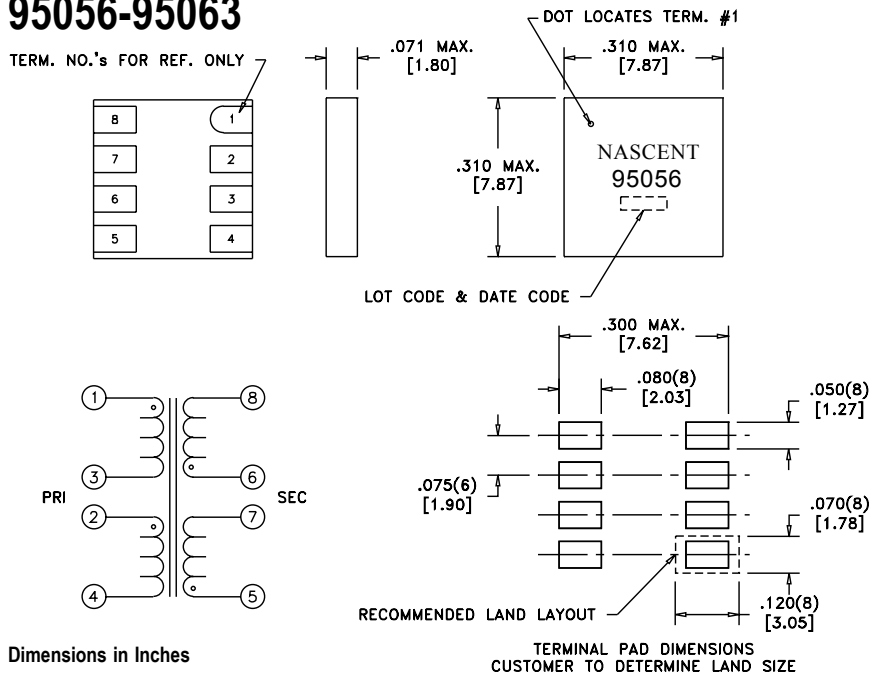


# Low Power Ceramic Transformers

## 95056-95063



Dimensions in Inches

NASCENTechnology, 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 have smaller turns ratios. Both sets have split primary and secondary windings that can be easily connected to match various circuit configurations or even to adjust the turns ratio. The parts are 0.300" [7.6mm] square and less than 0.078" [2mm] high. They are intended for low power applications and can pass as much as 1250mW of continuous power (with 40° C rise) with a 15-24VDC input. The dielectric breakdown voltage rating is 500Vrms. Typical operating frequency range is 200kHz to 1MHz.

This product is protected under NASCENTechnology, Inc.'s Intellectual Property Portfolio, specifically US Patents # 6,054,914, # 6,198,374 and other pending patents.

### Features

- Low profile
- Rugged package
- Self shielding
- Combine windings to meet specific applications
- Frequency range 200 KHz - 1 MHz
- Designed for pick and place
- Compatible with solder reflow

### Applications

- Isolated power supplies
- Noise-immunity communication interface
- Isolated data acquisition
- Bridging ground differences
- Isolated clock/sync interface
- Process Control

Part No	Turns Ratio	V-us Rating	Primary Resistance	Secondary Resistance	Primary Inductance	Secondary Inductance	Leakage Inductance
		↓	+/-20% ohms (1-4)	+/-20% ohms (5-8)	+/-20% uH (1-4)	+/-20% uH (5-8)	uH (1-4)
95056	1:1	4.5	.64	.64	60	60	5.4
95057	1:2	4.5	.64	1.25	46	170	3.7
95058	1:3	4.5	.68	4.24	56	450	3.5
95059	1:4	4.5	.66	7.09	66	910	3.2
95060	1:0.5	9.0	3.6	.66	280	72	17.4
95061	1:1	9.0	3.6	3.6	368	364	12.4
95062	1:1.5	9.0	3.8	4.3	280	550	9.5
95063	1:2	9.0	3.6	7.14	350	1230	8.3

Notes: Terminals 2-3, 6-7 joined.  
AC measurements at 500kHz, 0.5Vac  
Dielectric: 500Vac  
Power rating: 250-1250mW

Specifications subject to change without notice.

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