



CS 100 SERIES TRANSFORMERS



MIL-PRF-27

ELECTRICAL SPECIFICATIONS

- **Operating Temperature:** -55°C to +125°C
- **Storage Temperature:** -60°C to +130°C
- **Insulation Resistance:** 10K MOhms minimum
- **Different electrical values available upon request**
- **Dielectric Withstanding Voltage:** 500 V_{AC}

FEATURES

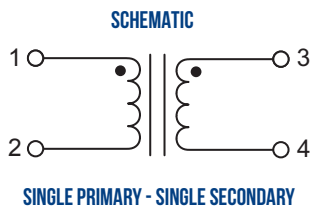
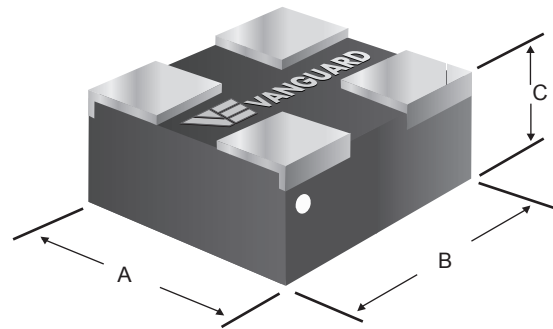
- **Compact**, low profile, ideal for automatic placement
- Built to meet **MIL-PRF-27** specifications
- **Low Thermal Expansion, Transfer Molded Package**
- **Terminations:** Tin-lead
- **Other termination finishes available upon request**
- **Welded Internal Connections**
- **Moisture, Shock and Immersion Resistant**
- **Resistance to Soldering Heat:** 265°C for 10 secs
- **Other termination finishes available upon request**

I _{PK} max (Amps)	ET (V-μS)	Turns Ratio
6 to 22	20 to 288	1:50 to 1:200

MARKINGS: LASER OR INK
ALL DIMENSIONS: INCHES

THRU-HOLE AND GULLWING PACKAGES ALSO AVAILABLE

Package	A max.	B max.	C max.
A-1	.260	.260	.240
A-2	.410	.410	.240
A-3	.410	.410	.310
A-4	.535	.535	.310



Vanguard P/N	**I _{PK} max (Amps)	ET ref (V-μS)	DCR max (Ohms)	Inductance ref (mH)	Package	Turns Ratio
CS101	6	20	1.0	2.8	A-1	1:50
CS102	12	40	1.2	4.7	A-2	1:50
CS103	13	40	1.2	4.4	A-3	1:50
CS104	9	20	1.2	5.7	A-1	1:100
CS105	12	40	1.7	8.9	A-2	1:100
CS106	22	144	2.9	21.0	A-4	1:100
CS107	6	40	5.6	23.0	A-1	1:200
CS108	13	80	7.9	35.0	A-3	1:200
CS109	20	288	6.0	86.0	A-4	1:200

Inductance measured at 10 kHz, 0.1 V_{RMS}

** Signal generated is 25% duty cycle pulse wave

CUSTOM DESIGNS & MODIFICATIONS:

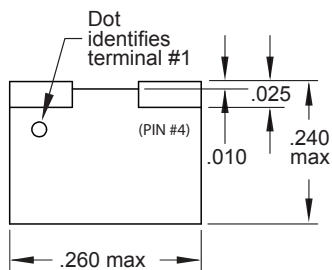
Other electrical configurations and performance characteristics are available in various sizes and package types



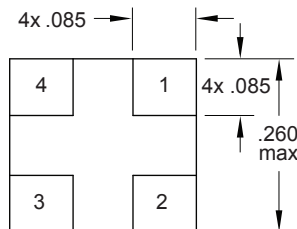


PACKAGE A1

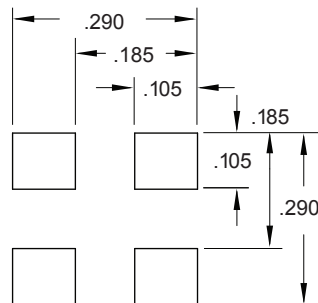
SIDE VIEW



BOTTOM VIEW

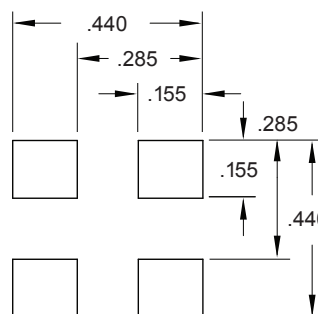
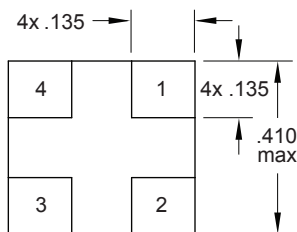
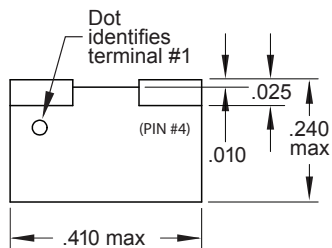


RECOMMENDED MOUNTING PAD CIRCUIT SIDE



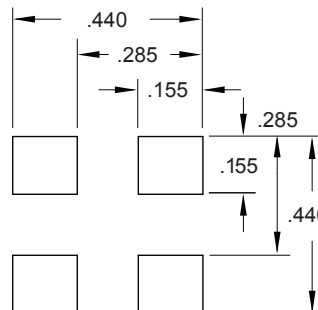
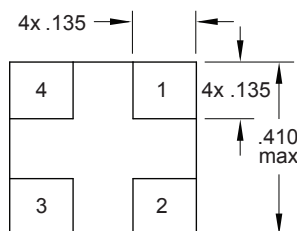
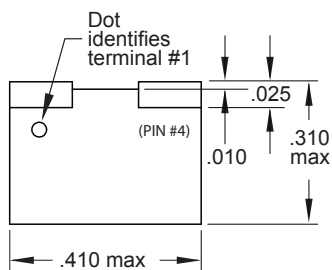
IN	MM
0.290	7.37
0.260	6.60
0.240	6.09
0.185	4.70
0.105	2.67
0.085	2.16
0.025	0.64
0.010	0.25

PACKAGE A2



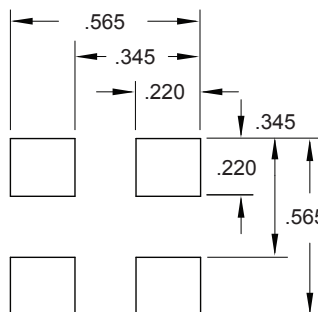
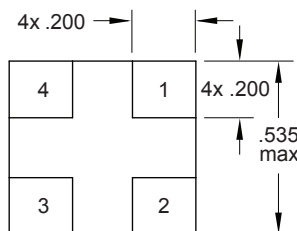
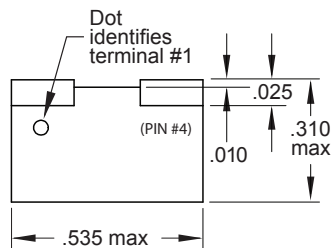
IN	MM
0.440	11.18
0.410	10.41
0.285	7.24
0.255	6.48
0.240	6.09
0.155	3.94
0.135	3.43
0.025	0.64
0.010	0.25

PACKAGE A3



IN	MM
0.440	11.18
0.410	10.41
0.310	7.87
0.285	7.24
0.155	3.93
0.135	3.43
0.025	0.64
0.010	0.25

PACKAGE A4



IN	MM
0.565	14.35
0.535	13.59
0.345	8.76
0.310	7.87
0.220	5.59
0.200	5.08
0.025	0.64
0.010	0.25

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