



CMN4 SERIES NANOCRYSTALLINE COMMON MODE CHOKE



COTS+

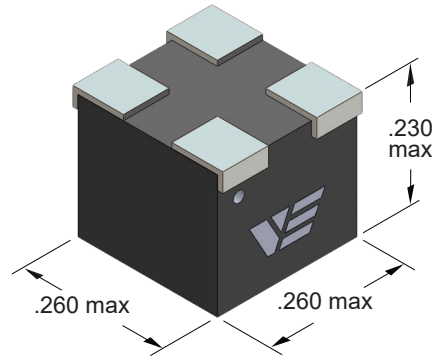
Inductance Range (mH)	DCR max (Ohms)	Current Rating (A)
0.07 - 10.4	0.011 - 0.25	2.70 - 0.48

ALL DIMENSIONS: INCHES

THRU-HOLE & GULL-WING PACKAGES ALSO AVAILABLE

ELECTRICAL SPECIFICATIONS

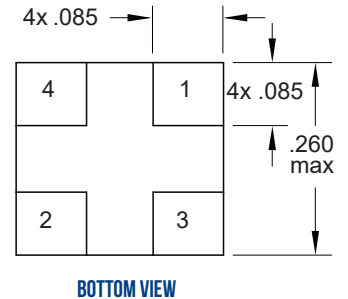
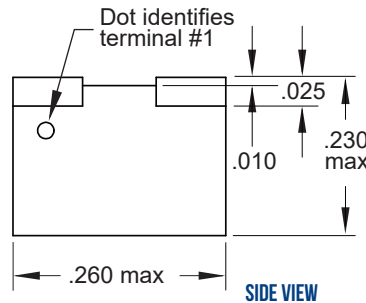
- Operating Temperature: -55°C to +125°C
- Storage Temperature: -60°C to +130°C
- Temperature Rise: < 30°C
- Inductance: Measured at 10kHz, 0.10V
- DCR: Measured at room ambient (25°C)
- Dielectric Withstanding Voltage: 1000 V<sub>RMS</sub>
- Overload Current: 1.5 times rated current
- Different electrical values available upon request



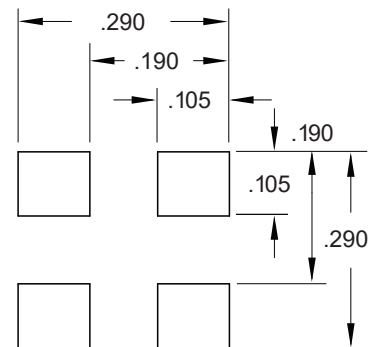
MARKINGS: LASER ETCH OR INK

FEATURES

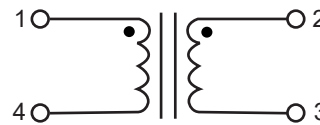
- Compact, low profile, ideal for automatic placement
- Terminations: HMP solder, Lead Free (RoHS)
- Resistance to Soldering Heat: 265°C for 10 seconds
- Welded Internal Connections - no reflow risk
- Moisture, Shock and Immersion Resistant
- Magnetically Shielded
- Other termination finishes available
- Ideally designed for GaN applications and higher switching frequencies
- Designed with nanocrystalline core for superior thermal stability and higher frequency operations



IN	MM
0.290	7.37
0.260	6.60
0.230	5.85
0.190	4.83
0.105	2.67
0.085	2.16
0.025	0.64
0.010	0.25



RECOMMENDED MOUNTING PAD CIRCUIT SIDE



SCHEMATIC

CUSTOM DESIGNS & MODIFICATIONS:

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





DATA TABLE

Vanguard P/N	Inductance @ 10kHz ± 40% (mH)	DCR Max (Ohms)	Rated Current (A)
CMN4-702*-*-*	0.07	0.011	2.70
CMN4-153*-*-*	0.15	0.016	2.21
CMN4-273*-*-*	0.27	0.021	1.91
CMN4-423*-*-*	0.42	0.027	1.71
CMN4-603*-*-*	0.60	0.032	1.56
CMN4-823*-*-*	0.82	0.037	1.45
CMN4-114*-*-*	1.1	0.042	1.35
CMN4-134*-*-*	1.3	0.048	1.27
CMN4-174*-*-*	1.7	0.053	1.21
CMN4-204*-*-*	2.0	0.055	1.15
CMN4-244*-*-*	2.4	0.072	0.98
CMN4-284*-*-*	2.8	0.074	0.94
CMN4-334*-*-*	3.3	0.075	0.91
CMN4-374*-*-*	3.7	0.093	0.79
CMN4-434*-*-*	4.3	0.099	0.76
CMN4-484*-*-*	4.8	0.11	0.74
CMN4-544*-*-*	5.4	0.14	0.64
CMN4-604*-*-*	6.0	0.15	0.62
CMN4-674*-*-*	6.7	0.16	0.61
CMN4-734*-*-*	7.3	0.17	0.59
CMN4-814*-*-*	8.1	0.22	0.51
CMN4-884*-*-*	8.8	0.23	0.50
CMN4-964*-*-*	9.6	0.24	0.49
CMN4-105*-*-*	10.4	0.25	0.48

VE PART NUMBER STRUCTURE KEY

EXAMPLE: CMN4-204S-1-T

INDUCTANCE (uH) (mH)

702 = 70 uH
244 = 2.4 mH
884 = 8.8 mH

TERMINATION

Table with 2 columns: S (SnPb), R (Pure Tin)

RELIABILITY

Table with 2 columns: 1 (COTS/EM), 7 (Other)

PACKAGING (Default Bulk)

Table with 2 columns: B (Bulk), T (Tape and Reel)

Tape and reel specs
Pcs. / reel maximum: (7") 200, (13") 800
Pitch between parts: 12 mm
Tape width: 16 mm

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