



CMN7 SERIES NANOCRYSTALLINE COMMON MODE CHOKE



COTS+

ELECTRICAL SPECIFICATIONS

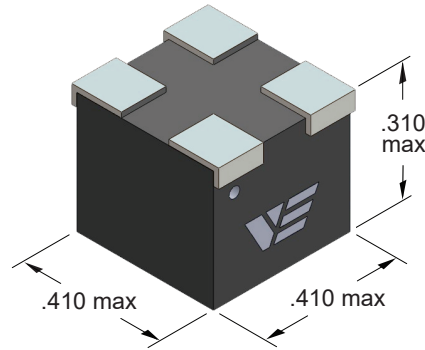
- Operating Temperature: -55°C to +125°C
Storage Temperature: -60°C to +130°C
Temperature Rise: < 30°C
Inductance: Measured at 10kHz, 0.10V
DCR: Measured at room ambient (25°C)
Dielectric Withstanding Voltage: 1000 VRMS
Overload Current: 1.5 times rated current
Different electrical values available upon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

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

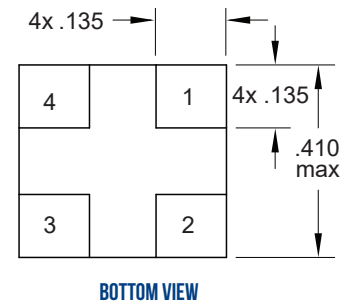
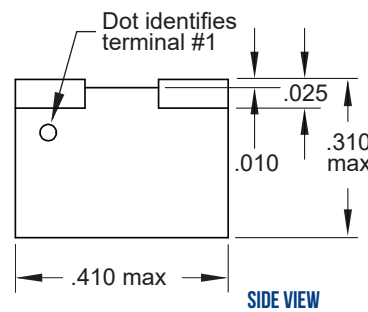
Table with 3 columns: Inductance Range (mH), DCR max (Ohms), Current Rating (A). Values: 0.07 - 10.7, 0.004 - 0.262, 7.45 - 0.99

ALL DIMENSIONS: INCHES

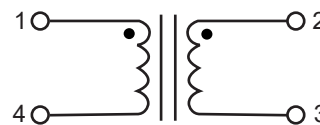
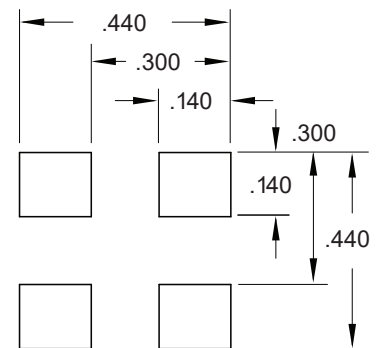


THRU-HOLE & GULL-WING PACKAGES ALSO AVAILABLE

MARKINGS: LASER ETCH OR INK



Conversion table with columns IN and MM. Values: 0.440 (11.18), 0.410 (10.41), 0.310 (7.87), 0.300 (7.62), 0.140 (3.57), 0.135 (3.43), 0.025 (0.64), 0.010 (0.25)



SCHEMATIC

RECOMMENDED MOUNTING PAD CIRCUIT SIDE

CUSTOM DESIGNS & MODIFICATIONS:

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

CMN7 SERIES COTS+ logo





DATA TABLE

Vanguard P/N	Inductance @ 10kHz ± 40% (mH)	DCR Max (Ohms)	Rated Current (A)
CMN7-702*-*-*	0.07	0.004	7.45
CMN7-173*-*-*	0.17	0.005	6.75
CMN7-303*-*-*	0.30	0.007	6.53
CMN7-463*-*-*	0.46	0.011	5.20
CMN7-673*-*-*	0.67	0.014	4.98
CMN7-913*-*-*	0.91	0.020	4.10
CMN7-124*-*-*	1.2	0.029	3.42
CMN7-154*-*-*	1.5	0.042	2.86
CMN7-194*-*-*	1.9	0.046	2.72
CMN7-224*-*-*	2.2	0.081	2.06
CMN7-274*-*-*	2.7	0.084	1.97
CMN7-314*-*-*	3.1	0.086	1.89
CMN7-364*-*-*	3.6	0.087	1.82
CMN7-424*-*-*	4.2	0.088	1.76
CMN7-474*-*-*	4.7	0.091	1.70
CMN7-534*-*-*	5.3	0.118	1.47
CMN7-604*-*-*	6.0	0.125	1.43
CMN7-674*-*-*	6.7	0.164	1.25
CMN7-744*-*-*	7.4	0.172	1.22
CMN7-824*-*-*	8.2	0.181	1.19
CMN7-904*-*-*	9.0	0.189	1.16
CMN7-984*-*-*	9.8	0.251	1.01
CMN7-105*-*-*	10.7	0.262	0.99

VE PART NUMBER STRUCTURE KEY

EXAMPLE: CMN7-604S-1-T

INDUCTANCE (uH) (mH)

702 = 70 uH
224 = 2.2 mH
904 = 9.0 mH

TERMINATION

S	SnPb
R	Pure Tin

RELIABILITY

1	COTS/EM
7	Other

PACKAGING (Default Bulk)

B	Bulk
T	Tape and Reel

Tape and reel specs
Pcs. / reel maximum, (13") 430
Pitch between parts: 16 mm
Tape width: 24 mm

Tape and Reel not available for Thru-Hole or Gull-Wing Packages

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