



CMN7 SERIES

NANOCRYSTALLINE COMMON MODE CHOKE

**COTS +**

ELECTRICAL SPECIFICATIONS

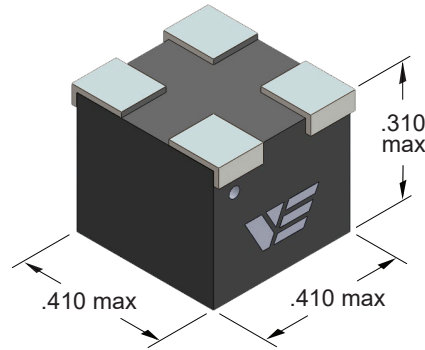
- **Operating Temperature:** -55°C to +125°C
- **Storage Temperature:** -60°C to +130°C
- **Temperature Rise:** < 30°C
- **Inductance:** Measured at 10kHz, 0.10V
- **DCR:** Measured at room ambient (25°C)
- **Dielectric Withstanding Voltage:** 1000 V_{RMS}
- **Overload Current:** 1.5 times rated current
- **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**

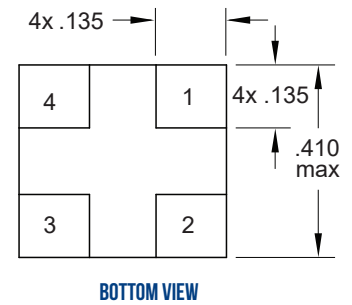
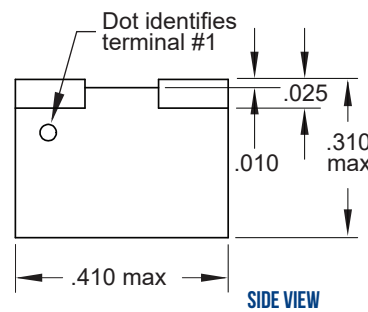
Inductance Range (mH)	DCR max (Ohms)	Current Rating (A)
0.07 - 10.7	0.004 - 0.262	7.45 - 0.99

ALL DIMENSIONS: INCHES

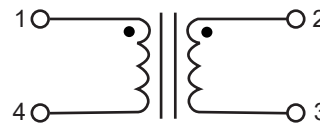
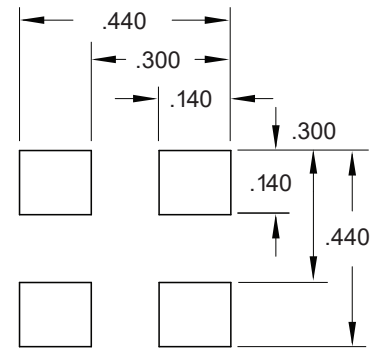


THRU-HOLE & GULL-WING PACKAGES ALSO AVAILABLE

MARKINGS: LASER ETCH OR INK



IN	MM
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



CUSTOM DESIGNS & MODIFICATIONS:

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

CMN7 SERIES





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

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, (13") 430
Pitch between parts: 16 mm
Tape width: 24 mm

CUSTOM DESIGNS & MODIFICATIONS:

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

CMN7 SERIES COTS+

