



CMN 15 SERIES

NANOCRYSTALLINE COMMON MODE CHOKE



COTS +

ELECTRICAL SPECIFICATIONS

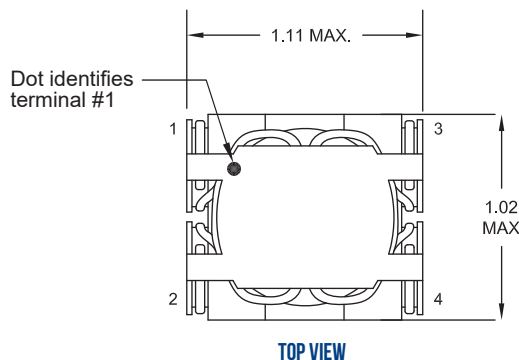
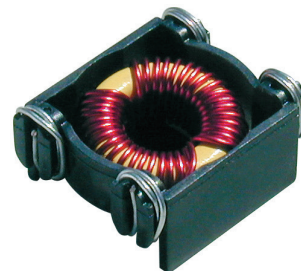
- **Operating Temperature:** -55°C to +125°C
- **Storage Temperature:** -60°C to +130°C
- **Temperature Rise:** < 30°C
- **Inductance:** Measured at 10kHz, 0.10V
- **DCR:** Measured at room ambient (25°C)
- **Dielectric Withstanding Voltage:** 1000 V_{RMS}
- **Overload Current:** 1.5 times rated current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

FEATURES

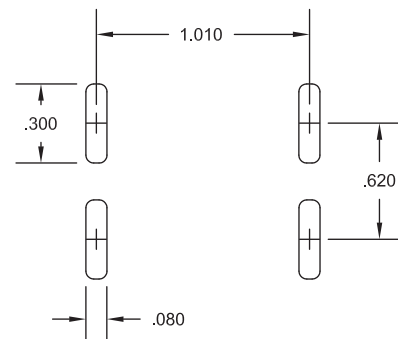
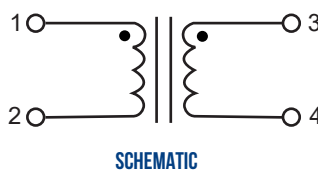
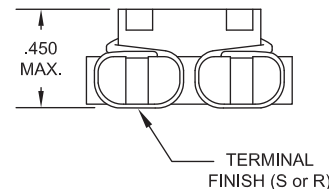
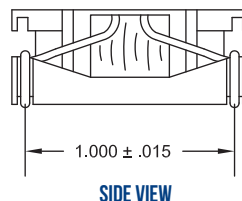
- **Compact**, low profile, ideal for automatic placement
- **Terminations:** Tin-lead, Lead Free (RoHS)
- **Resistance to Soldering Heat:** 265°C for 10 seconds
- **Welded Internal Connections** - no reflow risk
- **Moisture, Shock and Immersion Resistant**
- **Magnetically Shielded**
- **Other termination 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 - 10.2	0.002 - 0.032	5.0 - 20.1

ALL DIMENSIONS: INCHES



MARKINGS: LASER ETCH OR INK



RECOMMENDED MOUNTING PAD CIRCUIT SIDE

CUSTOM DESIGNS & MODIFICATIONS:

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

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DATA TABLE

Vanguard P/N	Inductance @ 10kHz ± 40% (mH)	DCR Max (Ohms)	Rated Current (A)
CMN15-702*-**	0.07	0.002	20.1
CMN15-283*-**	0.28	0.002	18.7
CMN15-643*-**	0.64	0.003	17.9
CMN15-114*-**	1.1	0.004	17.5
CMN15-154*-**	1.4	0.004	17.1
CMN15-224*-**	2.2	0.006	13.3
CMN15-304*-**	3.0	0.008	10.9
CMN15-404*-**	4.0	0.011	9.0
CMN15-514*-**	5.1	0.014	7.6
CMN15-644*-**	6.4	0.020	6.4
CMN15-784*-**	7.8	0.028	5.4
CMN15-105*-**	10.2	0.032	5.0

VE PART NUMBER STRUCTURE KEY

INDUCTANCE (uH) (mH)

702 = 70 uH
224 = 2.2 mH
105 = 10.2 mH

EXAMPLE: CMN15-224S-1-B

TERMINATION

S	SnPb
R	Pure Tin

RELIABILITY

1	COTS/EM
7	Other

PACKAGING (Default Bulk)

B	Bulk
T	Tape and Reel

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