



SCMN 15 SERIES

NANOCRYSTALLINE COMMON MODE CHOKE



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

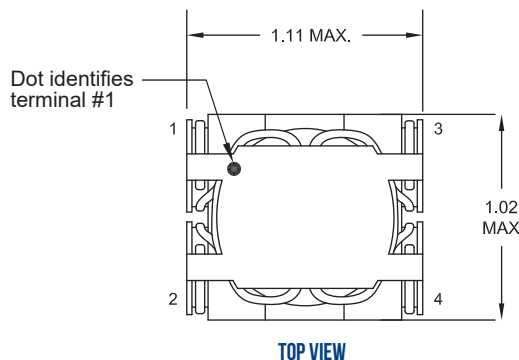
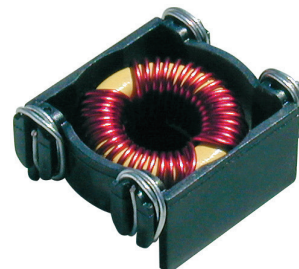
- **Compact**, low profile, ideal for automatic placement
- **Terminations:** Tin-lead
- **Resistance to Soldering Heat:** 265°C for 10 seconds
- **Welded Internal Connections** - no reflow risk
- **Moisture, Shock and Immersion Resistant**
- **Magnetically Shielded**
- **Other termination finishes available**
- **Ideally designed for GaN applications and higher switching frequencies**
- **Designed with nanocrystalline core for superior thermal stability and higher frequency operations**
- **NASA outgassing compliant per ASTM E595** (TML <1%, CVCM <0.1%)

ALL PARTS AVAILABLE AS CLASS S OR CLASS B

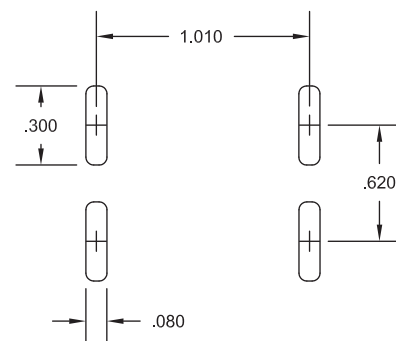
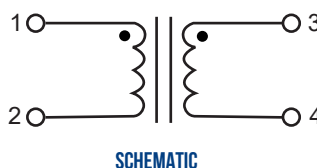
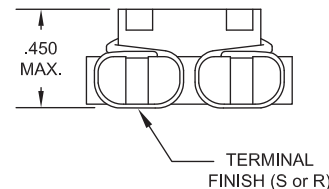
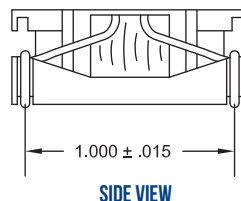
MIL-STD-981

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 $\pm$ 40% (mH)	DCR Max (Ohms)	Rated Current (A)
SCMN15-702*-.*	0.07	0.002	20.1
SCMN15-283*-.*	0.28	0.002	18.7
SCMN15-643*-.*	0.64	0.003	17.9
SCMN15-114*-.*	1.1	0.004	17.5
SCMN15-154*-.*	1.4	0.004	17.1
SCMN15-224*-.*	2.2	0.006	13.3
SCMN15-304*-.*	3.0	0.008	10.9
SCMN15-404*-.*	4.0	0.011	9.0
SCMN15-514*-.*	5.1	0.014	7.6
SCMN15-644*-.*	6.4	0.020	6.4
SCMN15-784*-.*	7.8	0.028	5.4
SCMN15-105*-.*	10.2	0.032	5.0

VE PART NUMBER
STRUCTURE KEYINDUCTANCE
(uH) (mH)

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

EXAMPLE: SCMN15-224S-3-B

TERMINATION

S	SnPb
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RELIABILITY

2	Group A MIL-STD-981
3	Group A+B MIL-STD-981
7	Other

PACKAGING
(Default Bulk)

B	Bulk
T	Tape and Reel

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