



SCMN 16 SERIES

NANOCRYSTALLINE COMMON MODE CHOKE



ELECTRICAL SPECIFICATIONS

- **Operating Temperature:** -55°C to $+125^{\circ}\text{C}$
- **Storage Temperature:** -60°C to $+130^{\circ}\text{C}$
- **Temperature Rise @ 100°C :** $< 30^{\circ}\text{C}$
- **Dielectric Withstanding Voltage:** $1000 V_{\text{RMS}}$
- **Overload Current:** 1.5 times rated current
- **Different electrical values available upon request**

FEATURES

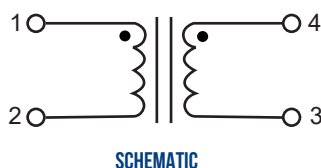
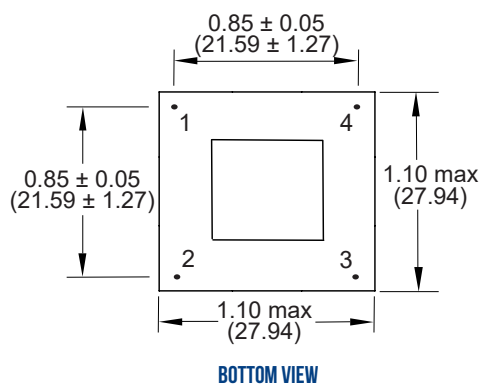
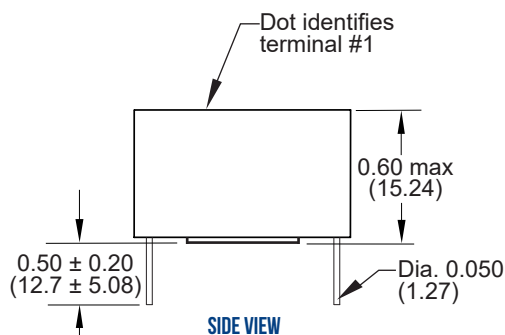
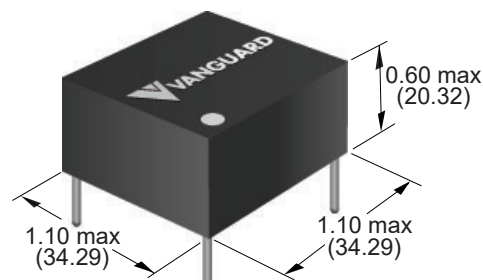
- **Terminations:** Tin-Lead
- **Resistance to Soldering Heat:** 265°C for 10 seconds
- **Moisture, Shock and Immersion Resistant**
- **Magnetically Shielded**
- **Ideally designed for GaN applications and higher switching frequencies**
- **Designed with nanocrystalline core for superior thermal stability 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)
0.39 - 50	0.0024 - 0.105	15.2 - 2.3

DIMENSIONS: INCHES (MM)
MARKINGS: LASER ETCH OR INK



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 $\pm$ 30% (mH)	DCR Max (Ohms)	Rated Current (A)
SCMN16-393TH	0.39	0.0024	15.2
SCMN16-693TH	0.69	0.0032	13.2
SCMN16-114TH	1.1	0.004	11.8
SCMN16-284TH	2.8	0.008	8.3
SCMN16-524TH	5.2	0.014	6.4
SCMN16-724TH	7.2	0.020	5.2
SCMN16-105TH	10	0.030	4.3
SCMN16-175TH	17	0.050	3.4
SCMN16-255TH	25	0.060	3.1
SCMN16-395TH	39	0.090	2.4
SCMN16-505TH	50	0.105	2.3

1/ Inductance measured at 10 kHz, 0.10 V_{RMS}

2/ DCR measured at room ambient temperature (25°C)

VE PART NUMBER STRUCTURE KEY

INDUCTANCE (uH) (mH)

393 = 390 uH
284 = 2.8 mH
505 = 50 mH

EXAMPLE: SCMN16-393THS-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
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