HIGH RELIABILITY ROD CORE CHOKES

SERIES 570X SMD - THD - AXIAL

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SUMIDA Components GmbH is a well-known manufacturer of RF electronic components for the high reliability market.

Within our product program, we offer standard platforms as well as custom solutions designed and manufactured with the highest level of quality.

CHARACTERISTICS OF HR- ROD CORE CHOKES DESCRIPTION

Due to our expertise in the field of HR components, SUMIDA Components GmbH offers customer-specific HR rod core chokes and air coils to ensure the strict requirements of these most demanding environments.

One of value added options are special solder connection surfaces to improve solderability and the robustness of the circuit board connection by tinning with tin / lead or RoHS-compatible materials.

In addition to our established quality standard, we have also established sophisticated test and inspection processes for high reliability as standards for our products, which can be extended with customer-specific electrical, mechanical and environmental tests including documentation. SUMIDA Components GmbH also possesses certified testing facilities in Asia and Europe to perform comprehensive laboratory testing services for electronic components.

POSSIBLE TEST REQUIREMENTS ON REQUEST

- High reliability Testing & Inspection Flow
- AEC-Q 200, Table 5
- MIL STD 883, MIL STD 981
- MIL-STD-202 Method 213 Condition F (Mechanical Shock)
- MIL-STD-202 Method 204 Condition H (Vibration)
- Rated Current Burn-In
- Outgassing ASTM E 525
- Cross-Sectional Microstructure

APPLICATIONS

- Medical
- Aerospace
- Critical Electronic Circuits

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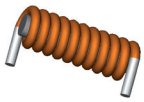
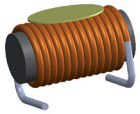
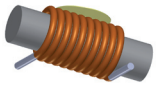
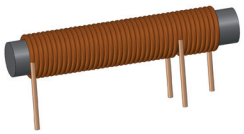





The following technical parameters are typical characteristics of our rod core chokes. On request, these can be individually adapted according to customer requirements.

ELECTRICAL PARAMETERS

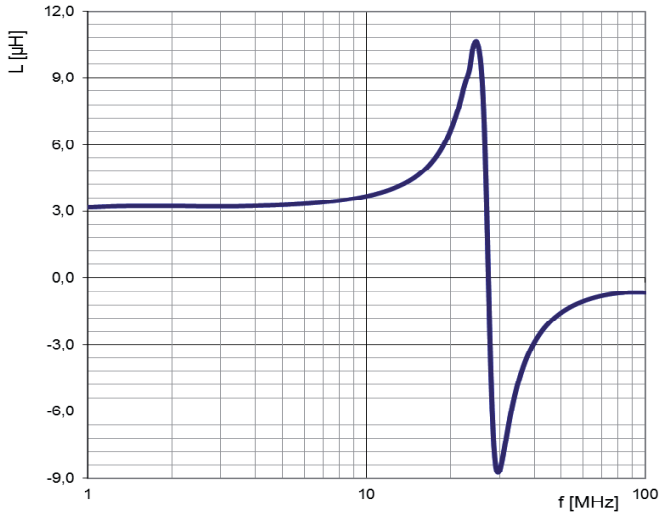
Inductance	L typ.	ca. 50 nH - 20 µH
Current	I_{DC} typ.	1 A … 80 A
Resistance	R_{DC} typ.	0,6 mΩ … 70 mΩ
Operating Temperature Range	-	-40 °C … +180 °C

MECHANICAL PARAMETERS

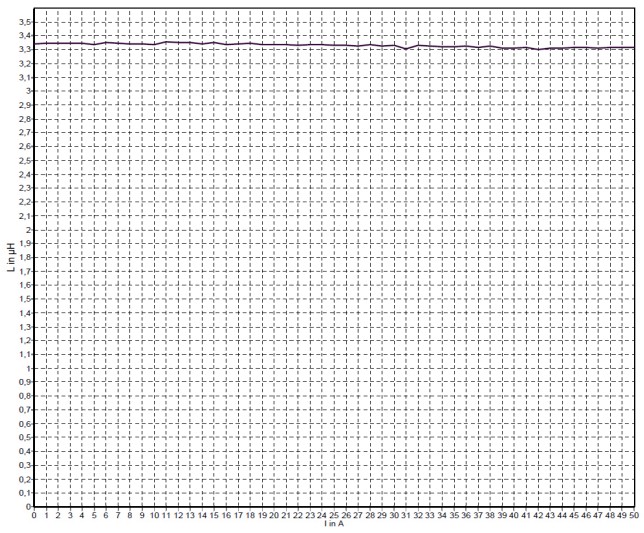
Wire DIN EN 60317-13	ø	0.3 - 3,0 mm
Wire Without Tinning	ø	up to 3.5 mm
Ferrite Core	µi at 25°C	250, 350

DIAGRAM EXAMPLE

Inductance L vs. Frequency f



Inductance L vs. Current I



QUALITY MANAGEMENT SYSTEM

Certified QM-System:
IATF 16949
DIN EN ISO 9001

Certified EM-System:
DIN EN ISO 14001
DIN EN ISO 50001

RoHS compliant

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