

E-SERIES 0603/0805 SMT CHIP INDUCTORS

SERIES 5206/5208



SUMIDA Components GmbH is a well-known manufacturer of RF electronic components. Within our product program, we offer standard platforms as well as custom solutions designed and manufactured with the highest level of quality. This results in robust and reliable components for our cu-

stomers' demanding applications. Our extensive manufacturing and testing capabilities coupled with our IATF 16949, DIN EN ISO 9001, DIN EN ISO 14001 and DIN EN ISO 50001 certifications, makes SUMIDA Components GmbH the right choice to satisfy your high requirements.

GENERAL CHARACTERISTICS OF WIRE-WOUND SMT CHIP INDUCTORS

DESCRIPTION

This series are characterised by an excellent price/ performance ratio. The E-Series SMT Chip Inductors are highly reliable inductive component solutions for mass production of electronic circuits for smart system suppliers of the electronic industry (Non-Automotive applications). The series 5206/5208 are wire-wound Chip Inductors on a ferrite and aluminiumoxide ceramic body. The terminal metallization is AgPd/Ni/Sn.

FEATURES

- Small Sizes for SMT
- Stable Inductance even in High Frequencies
- Tight Tolerances
- Low DC Resistance
- Operating Temperature Range -40 °C to +85 °C

APPLICATIONS

- Antenna Amplifier
- Mobile Phones (GSM)
- Global Positioning Systems (GPS)
- Digital Cameras

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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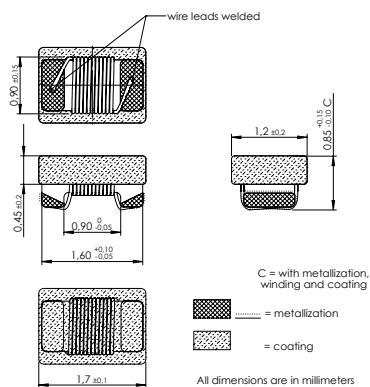
SERIES 5206/5208

ELECTRICAL PARAMETERS

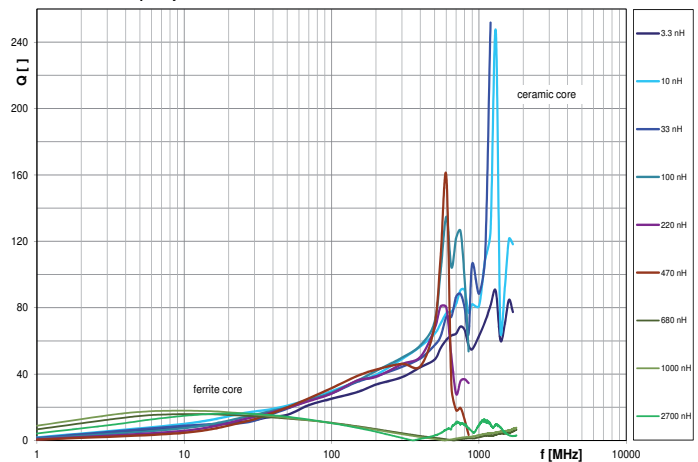
	symbol	0603 (1608)	0805 (2012)
Inductance	L	1,5 ... 2700 nH	2,7 ... 4700 nH
Tolerance (depends on L-Value)	-	2/5/10/20 %	2/5/10/20 %
Minimum Q-factor	Q_{\min}	12 ... 42	15 ... 48
Self Resonance Frequency	$f_{\text{res, min}}$	200 ... > 6000 MHz	185 ... > 6000 MHz
Max. DC Resistance	$R_{\text{DC, max}}$	30 ... 6300 m Ω	30 ... 3500 m Ω
Rated Current (ref. to 85 °C)	I_{rated}	100 ... 2200 mA	140 ... 1700 mA
Operating Temperature Range	-	-40 ... +85 °C	-40 ... +85 °C

Further L-Values and Tolerances on request

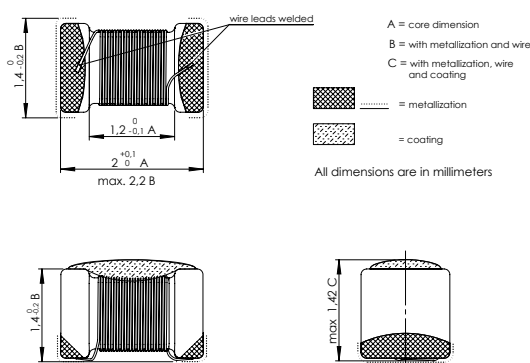
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Q-Factor vs. Frequency f



0805 (2012)



Q-Factor vs. Frequency f

