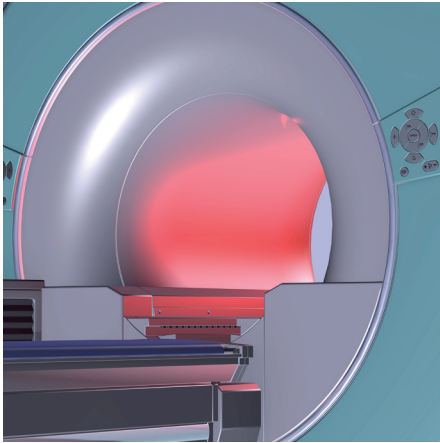


# HIGH RELIABILITY CERAMIC RF- COILS

**SERIES 5120 (5587/ 5387)**



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- CERAMIC RF- COILS DESCRIPTION

Due to our expertise in the field of HR components, SUMIDA Components GmbH offers customer-specific HR RF- Coils to ensure the strict requirements of these most demanding environments.

These HR RF- Coils are inductive components with a fixed highly constant inductance. The fired and galvanically strengthened silver windings are firmly fixed to the ceramic body.

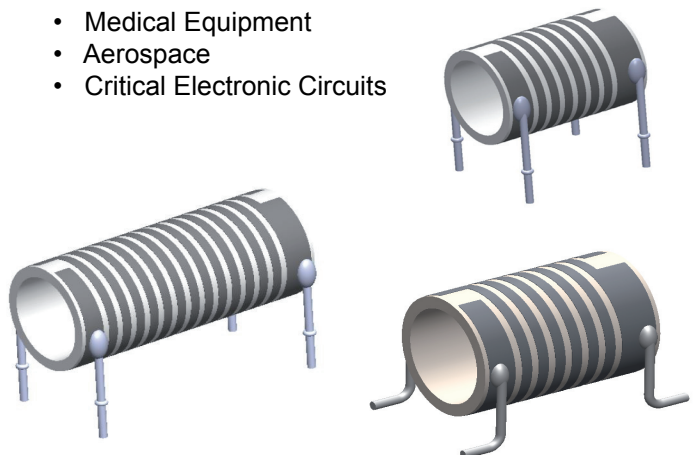
In addition to our established quality standard, we have also established sophisticated test and inspection processes for high reliability as standards for our products, which can be extended with customer-specific electrical, mechanical and environmental tests including documentation. SUMIDA Components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

## FEATURES

- SMT possible
- Highly Constant (Temp. Coefficient)
- Inductance 12 nH - 2660 nH
- Tolerance of Inductance 1 %, 2 %, 5 %, 10 %
- Average Coeff. of linear expansion at 30 - 300 °C according to DIN60642-3
- Operating Temperature Range -55 °C to +125 °C
- Tight Tolerances (e.g. 1 %)
- Non Magnetic
- Low R<sub>DC</sub>
- High Q-Factor
- Several Sizes
- Samples on request
- Customer specific on request

## APPLICATIONS

- Medical Equipment
- Aerospace
- Critical Electronic Circuits



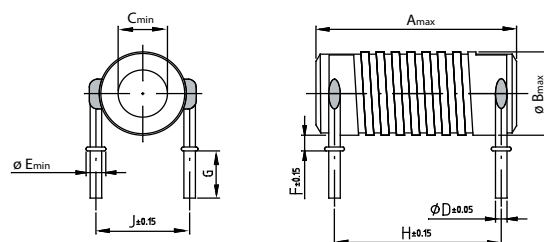
# HIGH RELIABILITY CERAMIC RF- COILS

**SERIES 5120 (5587/ 5387)**

## TECHNICAL DATA

Size	A	B	C	D	E	F	G	H	J
0	12.2	5.3	2.8	0.7	1.2	1.0	3.0 <sup>+0.3</sup>	10.15	5.70
I	16.4	7.0	4.6	0.7	1.2	3.0	4.5 <sup>+0.5</sup>	12.70	7.60
II	19.5	9.4	7.0	0.7	1.2	3.0	4.5 <sup>+0.5</sup>	15.25	10.15
III	21.5	14.2	10.8	1.0	1.6	3.0	4.5 <sup>+0.5</sup>	17.80	15.25
IV	34.8	14.2	10.8	1.0	1.6	3.0	4.5 <sup>+0.5</sup>	30.50	15.25

All dimensions in [mm]



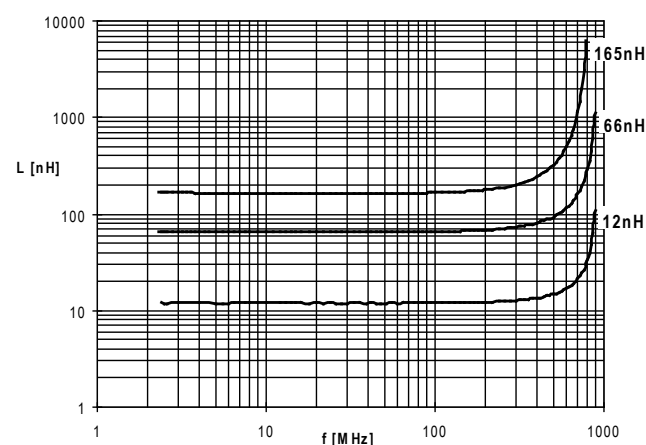
## CONSTRUCTIVE DATA

Ceramic Body	C-221 DIN VDE0335
Silver Windings	fired and galvanically strengthened
Terminals	copper tinned
Pick-off Terminals	on request
Marking	inductance value L in nH L-tolerance in code letters (K for ± 10 %, J for ± 5 %, G for ± 2 % and F for ± 1 %)
Dimensions	Size 0 / I / II / III / IV *

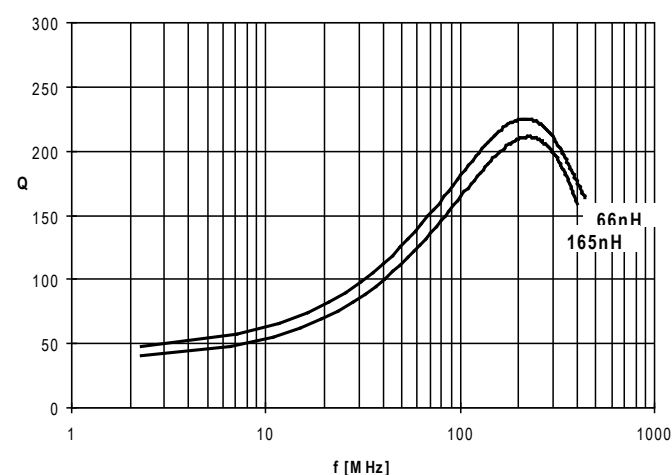
\* see technical data

## DIAGRAM EXAMPLE FOR SIZE 0

Inductance L vs. Frequency f



typ. Quality Q vs. Frequency f



## QUALITY MANAGEMENT SYSTEM

Certified QM-System:  
IATF 16949  
DIN EN ISO 9001

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