

# HIGH RELIABILITY CERAMIC EMI COMPONENTS

## CERAMIC CAPACITORS - FILTER PLATES



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 EMI COMPONENTS DESCRIPTION

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

These capacitors and filter plates are interference voltage suppressors with a wide range of capacitance, low self-inductance and are resistant to voltage impulses.

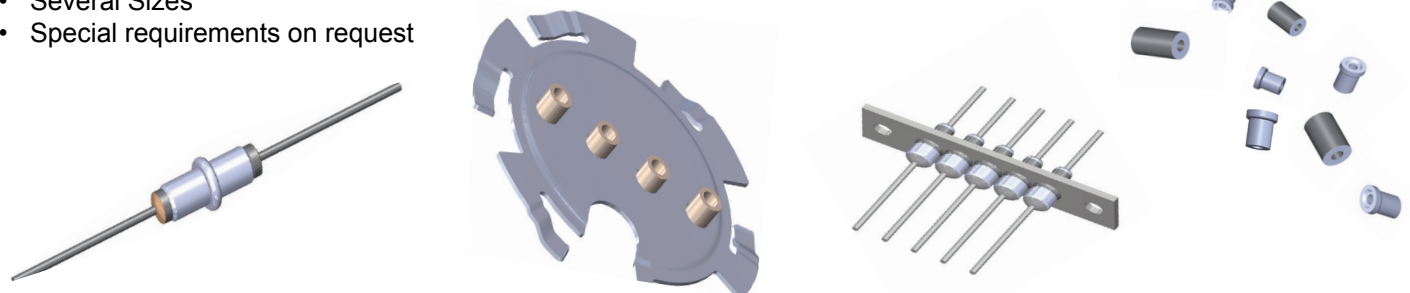
In addition to our established quality standard, we have also established sophisticated test and inspection processes for high reliability as standards for our products, which can be extended with customer-specific electrical, mechanical and environmental tests including documentation. SUMIDA Components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

## FEATURES

- Different ceramic materials (Class 1 and Class 2)
- Operating Temperature Range  
e.g. -55 °C to +125 °C
- Customer specific possible
- AEC-Q 200 (on request)
- Several Sizes
- Special requirements on request

## APPLICATIONS

- Medical
- Aerospace
- Critical Electronic Circuits



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## CERAMIC CAPACITORS - FILTER PLATES

## TECHNICAL DATA - EXAMPLE SERIES 2701 FEEDTHROUGH CAPACITORS

Ceramic	Capacitance Values	Capacitance Tolerances		Size (D x L) Examples
Class 1	1,8 pF ... 10 pF	±0,5 %	±1 %	4,5 x 6 / 7,5
	12 pF ... 180 pF	±10 %	±20 %	
Class 2	220 pF ... 330 pF	±20 %	+50 -20 %	
	390 pF ... 2000 pF	+50 -20 %	+80 - 20 %	
		+100 0 %		

All dimensions in [mm]

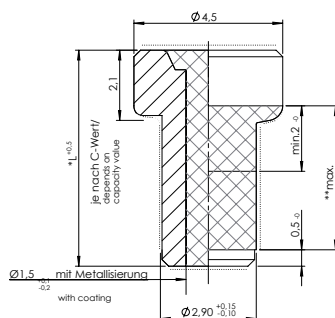
## TECHNICAL DATA - EXAMPLE SERIES 2700 / 2720 FOR CONNECTORS

Ceramic	Capacitance Value	Capacitance Tolerances	Examples
Class 1	all values	±20 %	on request
Class 2	220 ... 2700 pF	±20 %	D <sub>a</sub> : 1,6 / 2,0 / 2,2 / 2,4 / 4,9
			d <sub>i</sub> : 0,9 / 1,1 / 1,13 / 1,6 / 3,5
			L : 2,2 - 2,8 / 2,85 / 2,9 / 3,0 / 3,2

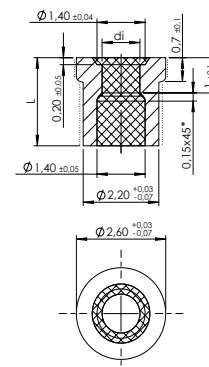
All dimensions in [mm]

## CONSTRUCTIVE DATA

Ceramic Body	DIN EN 60384-1, DIN EN 60384-8, DIN EN 6384-9
Metallization	fired and galvanic
Types	with or without pin, Filterplate only customer specific
Dimensions	according to type or on request



### Example: Series 2701 feedthrough capacitors



Example: Series 2700 / 2720 for connectors

## QUALITY MANAGEMENT SYSTEM

Certified QM-System:  
IATF 16949  
DIN EN ISO 9001

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