

Thickfilm Resistor CS 007 / CS 007C

► Resistance ranges, tolerances and TC's

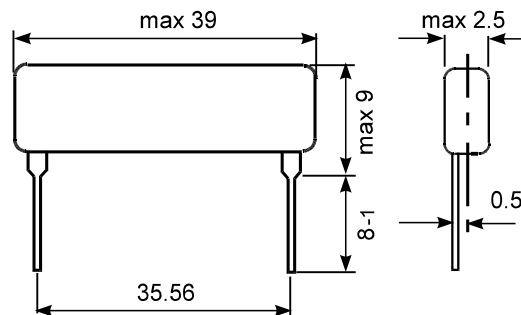
Tolerance	± 1%	± 2%	± 5%	± 10%
Resistance ranges	100K - 100M	>100M - 500M	>500M - 2G	>2G - 10G

All values within the resistance range are available.
Lower tolerance-values upon request.

► Ratings by IEC 60115-1

Thermal resistance R_{th}		max. 37 K/W
Limited element voltage		≅ 10000 V
Rated dissipation	P_{70} ($\vartheta_o = 125\text{ °C}$)	1.5 W
	P_{40} ($\vartheta_o = 125\text{ °C}$)	2.3 W
Climatic category		55 / 125 / 56
Insulation voltage		> 500 V
Insulation resistance		> $10^{10}\ \Omega$
Temp. characteristics	≤ 250M	± $100 \times 10^{-6}/\text{°C}$
	> 250M	± $250 \times 10^{-6}/\text{°C}$
Voltage coefficient		< $5 \times 10^{-6} / \text{V}$
Weight (100 pcs.)		ca. 120 g
Marking		letter
Cleaning solvents	For the removal of flux can be used: ethanol, methanol, isopropanol, propanol, butanol and water; reaction time max. 5 minutes	

► Dimensions CS 007



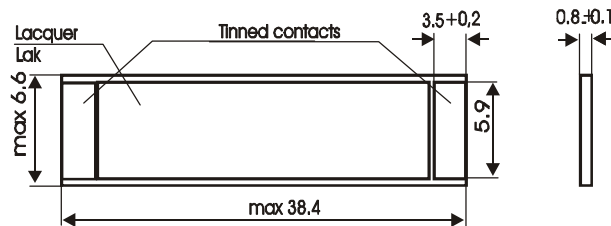
► Tests

	Test	Conditions	Requirements
4.13	Overload	5 s, $2,5 \times U_{rat}$ or $2 \times U_{max}$	$\Delta R \leq \pm (0.10\%R)$
4.18	Soldering-Resistance to heat	$260 \pm 5\text{ °C}$, 10 s	$\Delta R \leq \pm (0.10\%R)$
4.19	Rapid change of temp.	-65 °C , 155 °C , 5x	$\Delta R \leq \pm (0.25\%R)$
4.24	Damp heat, steady	40 °C , 93% r.H., 56 d	$\Delta R \leq \pm (0.25\%R)$
4.25	Endurance at 70 °C	U_{rat} or U_{max} 1000 h	$\Delta R \leq \pm (0.25\%R)$
		U_{rat} or U_{max} 8000 h	$\Delta R \leq \pm (0.50\%R)$

Section numbers of test and performance requirements refer to IEC 60115-1.

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► Dimensions CS 007C



► Ratings by IEC 60115-1

Voltage against ambient	75 V
Mounting	Face down
Weight (100 pcs)	ca. 110 g

► Tests

	Test	Conditions	Requirements
4.13	Overload	5 s, 2,5 x U _{rat} or 2 x U _{max}	$\Delta R \leq \pm (0.10\%R)$
4.18	Soldering-Resistance to heat	260 ± 5 °C, 10 s	$\Delta R \leq \pm (0.10\%R)$
4.19	Rapid change of temp.	-65°C, 155°C, 5x	$\Delta R \leq \pm (0.25\%R)$
4.31	Substrate bending test	10x, 1mm	$\Delta R \leq \pm (0.10\%R)$
4.25	Endurance at 70 °C	U _{rat} or U _{max} 1000 h	$\Delta R \leq \pm (0.50\%R)$
		U _{rat} or U _{max} 8000 h	$\Delta R \leq \pm (1.00\%R)$

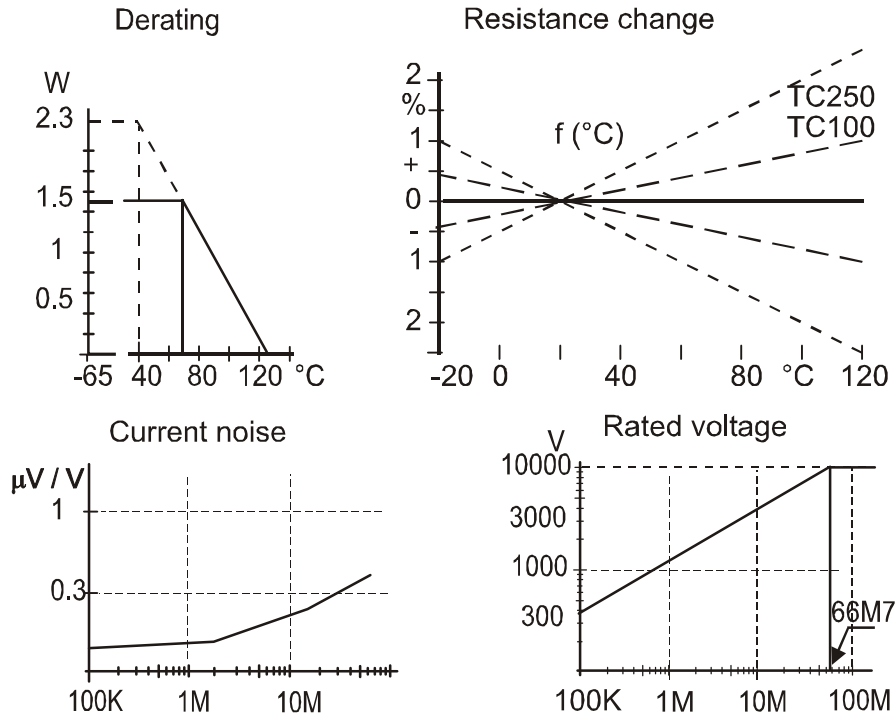
Section numbers of test and performance requirements refer to IEC 60115-1.

► Order examples

CS 007	100M	1%
—	—	—
type	rated resistance	tolerance
CS 007C	500M	2%
—	—	—
type	rated resistance	tolerance

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► Rating curves



► Standardvalues

1M	1%	10M	1%	100M	1%	1G	5%
		15M	1%	150M	2%		
2M	1%	20M	1%	200M	2%	2G	5%
		25M	1%	250M	2%		
		30M	1%	300M	2%	3G	10%
		40M	1%	400M	2%	4G	10%
5M	1%	50M	1%	500M	2%	5G	10%
		68M	1%	680M	5%		
		75M	1%	750M	5%	10G	10%