

Thickfilm Resistor CS 103 / CS 103C

► Resistance ranges, tolerances and TC's

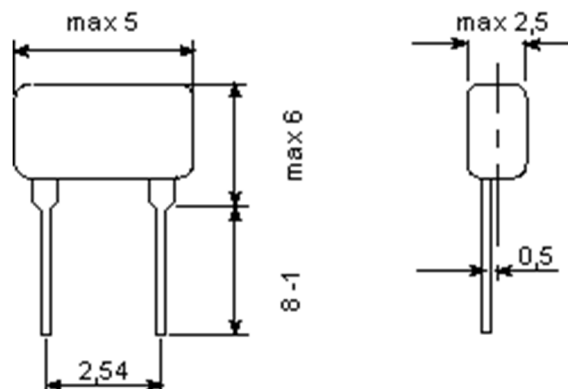
Tolerance	± 1%	± 2%	± 5%	± 10%
Resistance ranges	100R - 10M	>100R - 25M	>25R - 150M	>150M - 500M

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

► Ratings by IEC 60115-1

Thermal resistance R_{th}		max. 440 K/W
Limiting element voltage		$\cong 100$ V
Rated dissipation	P_{70} ($\vartheta_0 = 125$ °C)	0.125 W
	P_{40} ($\vartheta_0 = 125$ °C)	0.19 W
Climatic category		55 / 125 / 56
Insulation voltage		> 500 V
Insulation resistance		> 10^{10} Ω
Temp. characteristics		$\pm 25 \times 10^{-6} / ^\circ\text{C}$
Voltage coefficient		$< 0.5 \times 10^{-6} / \text{V}$
Weight (100 pcs.)		ca. 10 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 103



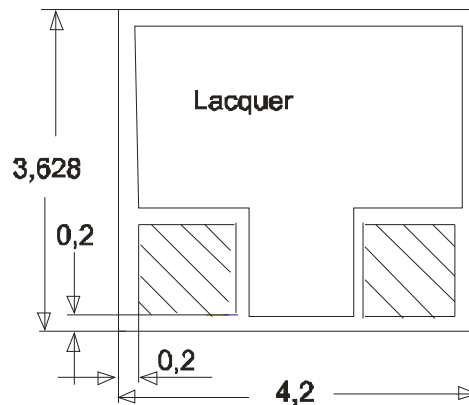
Thickfilm Resistor CS 103 / CS 103C

► Tests

	Test	Conditions	Requirements
4.13	Overload	5 s, $2,5 \times U_{\text{rat}}$ or $2 \times U_{\text{max}}$	$\Delta R \leq \pm (0.10\%R)$
4.18	Soldering-Resistance to heat	$260 \pm 5 \text{ }^\circ\text{C}$, 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 , 90% r.H., 56 d	$\Delta R \leq \pm (0.25\%R)$
4.25	Endurance at $70 \text{ }^\circ\text{C}$	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.

► Dimensions CS 103C



► Tests

	Test	Conditions	Requirements
4.13	Overload	5 s, $2,5 \times U_{\text{henn}}$ or $2 \times U_{\text{max}}$	$\Delta R \leq \pm (0.10\%R)$
4.18	Soldering-Resistance to heat	$260 \pm 5 \text{ }^\circ\text{C}$, 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 $70 \text{ }^\circ\text{C}$	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.

► Order examples

CS 103	10M	1%
—	—	—
Type	rated resistance	tolerance
CS 103C	10M	1%
—	—	—
Type	rated resistance	tolerance

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► Rating curves

