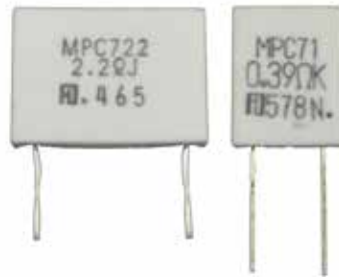


Metal plate cemented resistors series MPC

Data sheet

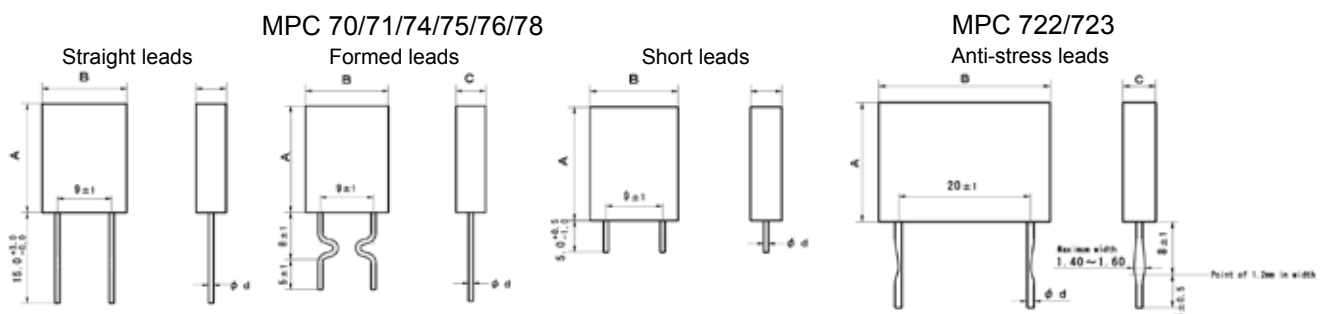


Low-ohmic power resistors

The special design features of these metal strip resistors offer a series of advantages compared to the known axially capped wirewound resistors due to the use of a technologically differently designed resistance element. This is punched as a meander out of a metal strip (special alloy of Ni / Cr / Fe / Cu). The connecting wires (DUMET wires) are welded to the metal strip without using any caps.

Thus, the two-dimensional structure has only a very small inductive resistance. The negative effect of the strong temperature drop from the „hotspot zone“ in the middle of the resistor to the two ends, which is sufficiently known from axial and capped resistors, does not occur with MPC resistors since the connecting wires have a substantially smaller surface than the element and no caps. The consistent distribution of the temperature over the element, which is thus largely been achieved, is additionally supported by housing the element in a hermetically sealed ceramic housing. Spaces are filled with ceramic powder before closing with special cement.

Due to the almost consistent heat dissipation across the entire housing, there is even the possibility of a multiple increase in the power rating by putting a suitable heat sink over the housing.



Electrical characteristics & dimensions

Type	Rated power	Execution	Resistance values	Available tolerances	Dimensions (mm)			
					A	B	C	Ø d
MPC70	2 W	Standard	0R1 - 1R0	K, J	8.0 ± 1.0	13.0 ± 1.0	4.0 ± 0.5	0.6 ± 0.1
MPC76		Low ohmic	R01, R02, R03, R05	K, J				
MPC78		Low distortion	0R1 - 1R0	K, J				
MPC71	5 W	Standard	0R1 - 1R0	K, J	18.0 ± 1.0	14.0 ± 1.0	5.0 ± 0.5	0.6 ± 0.1
MPC75		Low ohmic	R01, R02, R05, R08	K, J				0.8 ± 0.1
MPC75		High ohmic	1R5, 2R2	K, J				0.6 ± 0.1
MPC74		Low distortion	0R1 - 1R0	K, J				0.8 ± 0.1
MPC722	10 W	Anti-stress lead	R47, 1R0, 1R2, 1R8, 2R2, 3R3	K, J	18.0 ± 1.0	26.0 ± 1.0	5.0 ± 0.5	1.0 ± 0.1
MPC723			6R8	J				

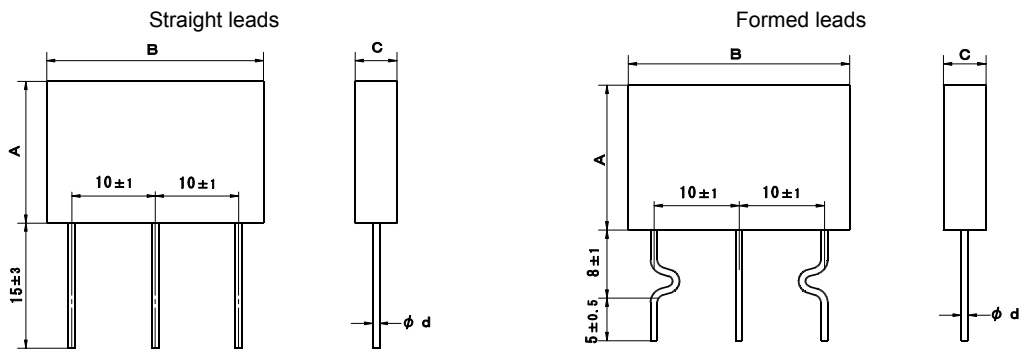
Available standard values:

MPC70: R10, R12, R15, R18, R22, R24, R27, R33, R39, R47, R56, R68, R82, 1R0
 MPC78: R10, R12, R15, R18, R22, R24, R27, R33, R47, R68, 1R0
 MPC71: R10, R12, R15, R18, R22, R24, R27, R33, R39, R47, R56, R68, R82, 1R0
 MPC74: R10, R12, R15, R18, R22, R24, R27, R33, R47, R56, 1R0

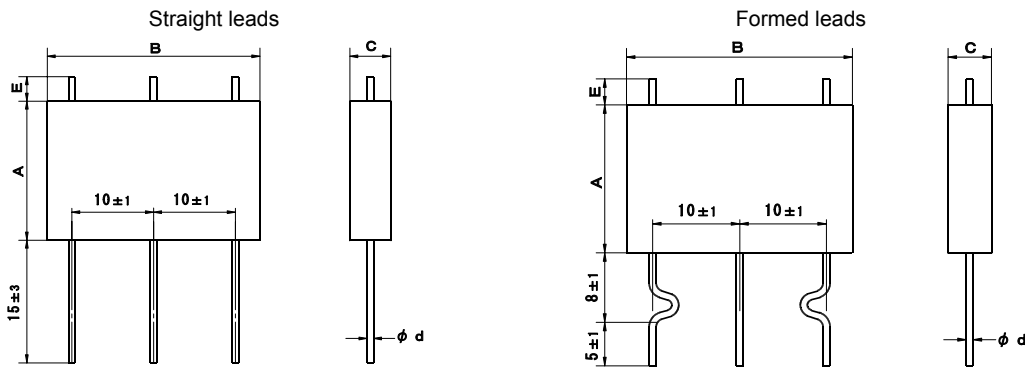
Metal plate cemented resistors series MPC

Data sheet

MPC 708/722



MPC 725



Electrical characteristics & dimensions

Type	Rated power	Resistances values	Available tolerances	Dimensions (mm)				
				A	B	C	E	Ø d
MPC708	2 x 2 W	R10, R22, R33	K	10.0 ± 1.0	26.5 ± 1.0	5.0 ± 0.5	-	0.6 ± 0.1
MPC722	2 x 5 W	R10, R22, R33	K	17.0 ± 1.0	26.0 ± 1.0	5.0 ± 0.5	-	0.8 ± 0.1
MPC725		R10, R22, R33	K				3.0 ± 0.5	

Derating curve

