

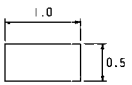
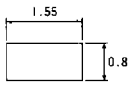
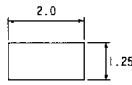
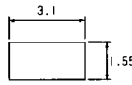
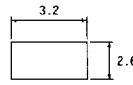
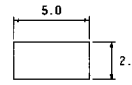
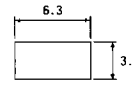
Thick Film Rectangular Chip-Resistors(MCR)

(JIS Standard : JIS C 5223)

ROHM was the first in the world to develop rectangular chip resistors and is now offering 7 series of reliable chip resistors ranging from MCR01 (1.0mm×0.5mm) to MCR100 (6.3mm×3.2mm) .

●Dimensions list

(Unit : mm)

Part No.	MCR01	MCR03	MCR10	MCR18	MCR25	MCR50	MCR100
Body Dimensions	 1005 (0402)	 1608 (0603)	 2012 (0805)	 3216 (1206)	 3225 (1210)	 5025 (2010)	 6432 (2512)
Actual size							
Enlarge (×3.0)							

Note : 1. 4-digit numbers in the dimensions column are sizes in mm and parenthetically in inches.

Part No.	Power rating (70°C)	Maximum working voltage (V)	Maximum over load voltage (V)	Resistance tolerance	Temperature coefficient (ppm/°C)	Resistance range	
MCR01	1/16W (0.063W)	50	100	J (±5%)	+500/-250	2.2Ω~9.1Ω	-55~+155
				G (±2%)	±200	10Ω~3.3MΩ	
				F (±1%)	±200	100Ω~2.2MΩ	
MCR03	1/16W (0.063W)	50	100	J (±5%)	500±350	1.0Ω~2.0Ω	-55~+155
					±400	2.2Ω~9.1Ω	
				G (±2%)	±200	10Ω~10MΩ	
					±200	10Ω~10MΩ	
					±200	100Ω~2.2MΩ	
MCR10	1/10W (0.100W)	150	300	K (±10%)	±100	10Ω~1.0MΩ	-55~+175
					500±350	0.47Ω~0.68Ω	
				J (±10%)	500±350	0.68Ω~2.0Ω	
					±400	2.2Ω~9.1Ω	
					±200	10Ω~2.2MΩ	
				G (±2%)	±250	2.4Ω~10MΩ	
					W ±200	10Ω~2.2MΩ	
MCR18	1/8W (0.125W)	200	400	F (±1%)	±200	10Ω~2.2MΩ	-55~+175
					X ±100	75Ω~1.0MΩ	
				J (±5%)	500±350	0.39Ω~4.7Ω	
					±200	5.1Ω~5.6MΩ	
					±250	6.2Ω~10MΩ	
				G (±2%)	W ±200	5.1Ω~5.6MΩ	
					500±350	1.0Ω~2.0Ω	
MCR25	1/4W (0.25W)	200	400	J (±5%)	±500	2.2Ω~9.1Ω	-55~+175
					±200	10Ω~2.2MΩ	
					±200	10Ω~2.2MΩ	
				F (±1%)	X ±100	75Ω~1.0MΩ	
					500±350	0.25Ω~0.47Ω	
				K (±10%)	500±350	0.47Ω~2.0Ω	
					±350	2.2Ω~5.1Ω	
MCR50	1/2W (0.50W)	200	400	J (±5%)	±200	5.6Ω~3.3MΩ	-55~+155
					W ±200	5.6Ω~3.3MΩ	
					±200	10Ω~3.3MΩ	
				F (±1%)	X ±100	10Ω~1.0MΩ	
					500±350	1.0Ω~2.0Ω	
				J (±5%)	±350	2.2Ω~9.1Ω	
					±200	10Ω~1.0MΩ	
MCR100	1.00W	200	400	G (±2%)	W ±200	10Ω~1.0MΩ	-55~+155
					±200	9.1Ω~1.0MΩ	
					±200	10Ω~1.0MΩ	
				F (±1%)	X ±100	10Ω~1.0MΩ	
					500±350	0.68Ω~2.0Ω	
				J (±5%)	±350	2.2Ω~9.1Ω	
					±200	10Ω~1.0MΩ	
				W ±200	±200	10Ω~1.0MΩ	
					±200	10Ω~1.0MΩ	
				W ±100	±100	10Ω~1.0MΩ	

Notes: 1. Jumper chips of the same shape are available (50mΩ Max.)

2. F tolerance product of MCR01 and MCR03 is available in E24 series.

Please consult with us in case of out of E24 series request.

3. There are some custom products in this chart.

Regarding the detailed specifications, please consult with us before ordering.

(Unit: mm)

Part No.	L	W	t	a	b
MCR01	1.0±0.05	0.5±0.05	0.35±0.05	0.20±0.10	0.25 ^{+0.05} _{-0.10}
MCR03	1.55±0.10	0.80 ^{+0.15} _{-0.10}	0.45±0.05	0.30±0.20	0.30±0.20
MCR10	2.0±0.10	1.25±0.10	0.55±0.10	0.35±0.20	0.35±0.20
MCR18	3.10±0.10	1.55 ^{+0.15} _{-0.10}	0.55±0.10	0.45±0.20	0.45±0.20
MCR25	3.2±0.20	2.60±0.20	0.55±0.10	0.50±0.20	0.50±0.20
MCR50	5.00±0.20	2.50±0.20	0.55±0.10	0.60±0.20	0.60±0.20
MCR100	6.30±0.20	3.15±0.20	0.55±0.10	0.60±0.20	0.60±0.20