

# Chip Resistors

Type	Rated Dissipation	Maximum Working Voltage	Resistance Tolerance	Resistance Range
MCR03	0.031W at 70°C	100V	J ± 5%	10Ω~320KΩ
MCR10	0.100W at 70°C	150V	J (±5%) G (±2%) F (±1%)	10Ω~3.3 MΩ 10Ω~1MΩ 75Ω~1MΩ
MCR18	0.125W at 70°C	200V	J (±5%) K (±10%) F (±1%)	2.2Ω~3.3MΩ 1Ω~10MΩ 75Ω~2.21MΩ
MCR25	0.25W at 70°C	100V	J (±5%)	5.6Ω~330KΩ
MCR50	0.50W at 70°C	100V	J (±5%)	5.6Ω~180KΩ
MCR100	1.00W at 70°C	100V	J (±5%)	5.6Ω~82KΩ

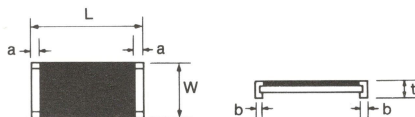
### Notes:

- (1) Type MCR18 may be used under the .025W rating if mounting density on the printed circuit board is considered.
- (2) Jumper chips are available for all types.
- (3) Temperature coefficients of X (±100 PPM/°C) or W (±200 PPM/°C) are available.
- (4) Resistors with less than 2.2Ω are available on special order.
- (5) -40~125°C operating temperature range for all types.

### Marking

- 5% — 3 digit (2 significant, 1 multiplier) on element side in yellow
- 1% — 4 digit (3 significant, 1 multiplier) on element side in yellow

### Dimensions (mm)



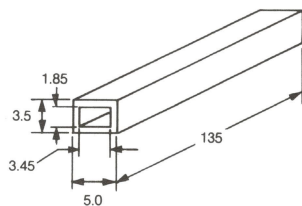
Type	L	W	t	a	b
MCR03	1.55±0.10	0.80±0.10	0.35±0.05	0.30±0.2	0.3±0.2
MCR10	2.0±0.10 -0.05	1.25±0.15 -0.10	0.55±0.10 -0.05	0.35±0.2	0.35±0.2
MCR18	3.1±0.10	1.55±0.10 -0.05	0.55±0.10 -0.05	0.45±0.2	0.45±0.2
MCR25	3.2±0.2	2.6±0.2	0.55±0.1	0.5±0.2	0.5±0.2
MCR50	5.0±0.2	2.5±0.2	0.55±0.1	0.6±0.2	0.6±0.2
MCR100	6.3±0.2	3.15±0.2	0.55±0.1	0.6±0.2	0.6±0.2

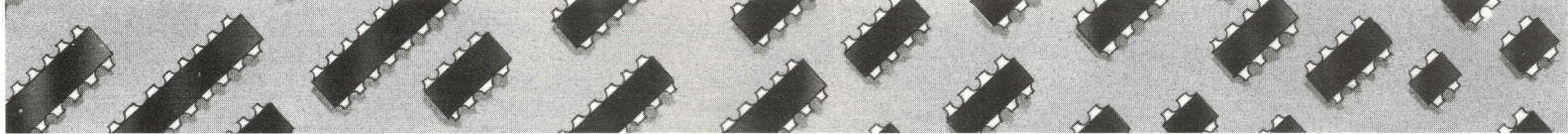
### Packaging Systems (Dimensions in mm)

**Tape & Reel** (See page 10)

**Bulk** (for MCR10, MCR25, MCR50 and MCR100)  
Polyethylene bag, 200 pcs. per bag.

### MCR18 Carrier Cartridge



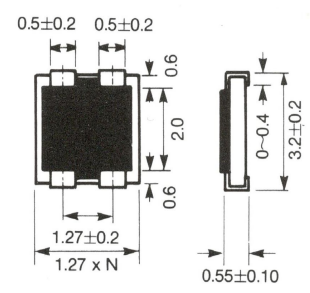


# Chip Resistor Arrays

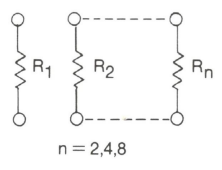
Type	MNR DM2, 4 or 8
Rated Dissipation	1/32W (0.031W) at 70°C
Maximum Voltage (V)	12V
Resistor Temperature Coefficient (PPM/°C)	Absolute value: ±200
Resistance Tolerance	Absolute value: J (±5%)
Resistance Range	(100Ω~330K)
Temperature Range (°C)	-40~125°

Type	MNR78
Rated Dissipation	1/16W (0.063W) at 70°C
Maximum Voltage (V)	50V
Resistor Temperature Coefficient (PPM/°C)	Absolute value: ±200
Resistance Tolerance	Absolute value: J (±5%) G (±2%)
Resistance Range	(100Ω~330K)
Temperature Range (°C)	-40~125°

## Dimensions (mm)



## Schematic Diagram

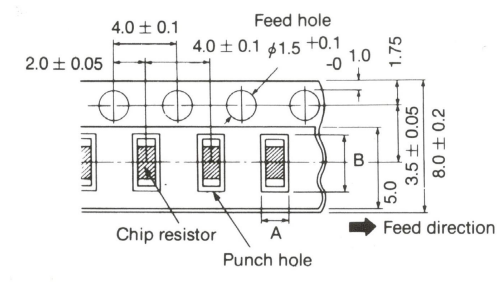


## Outstanding Features

- (1) Easy direct mounting on PCBs.
- (2) Suitable for wave soldering and most other soldering methods.
- (3) As well as mini-mold ICs, the resistors employ a 1.27mm pitch.
- (4) Ideal for custom designs.

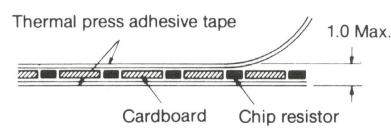
## Surface Mount Chip Resistors (for MCR10 and MCR18)

## Tape Loading Dimensions



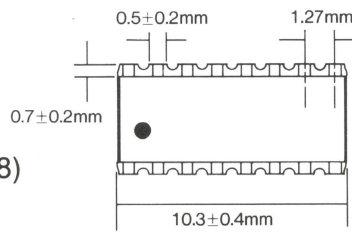
MCR 25, 50, 100 — 12mm tape.

Bulk 1000 pcs./bag+5K/box

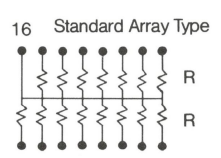


Point	Type	MCR18.	MCR10
A		1.95+0.10 -0.05	1.65+0.20 -0.10
B		3.50+0.10	2.40+0.20 -0.10

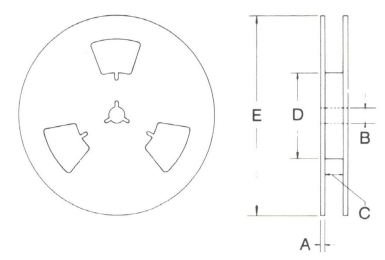
## Dimensions



## Schematic Diagram



## Reel Dimensions



	5K REEL	10K REEL
A	2.0	2.0
B	13+0.5	13±0.5
C	10±1.5	10±1.5
D	Min. 50	Min. 50
E	178+2	Max. 330

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