

Metal thin film chip resistor networks

■ RM series

AEC-Q200 Compliant

Features

- Relative resistance tolerance and relative TCR definable among multiple resistors within package.
- Relative resistance tolerance: $\pm 0.01\%$, relative TCR: $\pm 1\text{ppm}/^\circ\text{C}$
- Number of resistors in package: 2 or higher, standard and custom circuits designs available
- RG series equivalent reliability and long term stability: less than $\pm 0.1\%$ drift after 10000 hour stress test.
- RoHS compliant, 100% lead free

Applications

- Precision measurement instrumentation, medical electronics, automotive electronics
- Voltage divider and amplification circuits that require very precise relative resistance tolerance and TCR
- Multi step precision amplification circuits for minute signals

◆ Part numbering system

RM 2012 A - */** - P W X L 10**

Series code

Size: RM2012, RM3216, RM3225

circuits

Nominal Resistance Value(R1/R2)

Absolute TCR

Relative resistance tolerance

Relative TCR

Absolute resistance tolerance

Packaging quantity:
10(1,000pcs), 50(5,000pcs)

RM 3216 C - ** - 10

Series code

Size: RM3216, RM3225, RM6432

circuits

Custom part number (e.g.)N10

Packaging quantity:
10(1,000pcs), 50(5,000pcs)

※ Please contact our sales office regarding custom products including resistance, resistance combination, number of elements, circuit, and others.

※ Standard quantity / reel is 1000 and 5000. Please contact our sales office for custom product's quantity / reel.

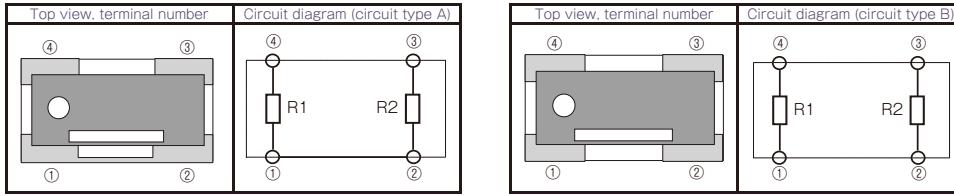
※ Standard resistance value pairings are shown as below
(Standard products are 2element circuit typeA & typeB only.)

◆ Standard resistance value pairings

| Ratio | R1 (Ω) | R2 (Ω) | Ratio | R1 (Ω) | R2 (Ω) | Ratio | R1 (Ω) | R2 (Ω) | Ratio | R1 (Ω) | R2 (Ω) | Ratio | R1 (Ω) | R2 (Ω) | Ratio | R1 (Ω) | R2 (Ω) |
|-------|--------|--------|-------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|
| 1 : 1 | 1k | 1k | 1 : 3 | 1k | 3k | 1 : 5 | 1k | 5k | 1 : 9 | 1k | 9k | 1 : 20 | 1k | 20k | 1 : 50 | 1K | 50k |
| | 10k | 10k | | 10k | 30k | | 2k | 10k | | 10k | 90k | | 2k | 40k | | 2K | 100k |
| | 100k | 100k | | 100k | 300k | | 10k | 50k | | 1k | 10k | | 5k | 100k | | 1K | 100k |
| 1 : 2 | 1k | 2k | 1 : 4 | 1k | 4k | 1 : 6 | 1k | 6k | 1 : 10 | 2k | 20k | 1 : 25 | 1k | 25k | 1 : 100 | 2K | 200k |
| | 10k | 20k | | 10k | 40k | | 10k | 60k | | 10k | 100k | | 2k | 50k | | | |
| | 100k | 200k | | | | | | | | | | | | | | | |

◆ Electrical Specification

○ 4 terminal, 2 element

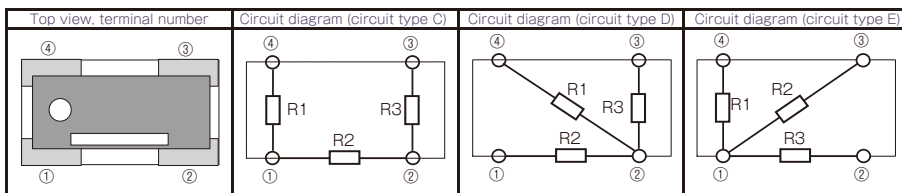


| Type | Power ratings (85°C) | Resistance range (Ω) | Resistance tolerance (Code) | | | | Temperature coefficient of resistance (Code) ^{*1} | | | | Packaging quantity (designation) |
|--------|--------------------------------------|----------------------|-----------------------------------|---|-----------------------------------|-----------------------------------|--|---|---|------------------------------|---|
| | | | Absolute tolerance | Relative tolerance ^{*2} | | | Absolute tolerance | Relative tolerance ^{*2} | | | |
| | | | | Resistance ratio = 1 | 1 < Resistance ratio ≤ 100 | 100 < Resistance ratio ≤ 500 | | Resistance ratio = 1 | 1 < Resistance ratio ≤ 100 | 100 < Resistance ratio ≤ 500 | |
| RM2012 | 0.05W / Element 0.1W / Package | 100 ~ <300 | ±0.1%(B) ±0.5%(D) | ±0.02%(P) ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | - | ±10ppm/°C(N) ±25ppm/°C(P) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±2ppm/°C(W) ±5ppm/°C(V) | - | tape & reel (T&R) 10=1,000pcs 50=5,000pcs |
| | | 300 ~ 100k | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.01%(L) ±0.02%(P) ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±5ppm/°C(V) ±10ppm/°C(N) ±25ppm/°C(P) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±2ppm/°C(W) ±5ppm/°C(V) | |
| RM3216 | 0.063W / Element 0.125W / Package | 100 ~ <300 | ±0.1%(B) ±0.5%(D) | ±0.02%(P) ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | - | ±10ppm/°C(N) ±25ppm/°C(P) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±2ppm/°C(W) ±5ppm/°C(V) | - | |
| | | 300 ~ 500k | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.01%(L) ±0.02%(P) ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±5ppm/°C(V) ±10ppm/°C(N) ±25ppm/°C(P) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±2ppm/°C(W) ±5ppm/°C(V) | |
| RM3225 | 0.1W / Element 0.2W / Package | 100 ~ <300 | ±0.1%(B) ±0.5%(D) | ±0.02%(P) ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | - | ±10ppm/°C(N) ±25ppm/°C(P) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±2ppm/°C(W) ±5ppm/°C(V) | - | |
| | | 300 ~ 500k | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.01%(L) ±0.02%(P) ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±5ppm/°C(V) ±10ppm/°C(N) ±25ppm/°C(P) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±2ppm/°C(W) ±5ppm/°C(V) | |

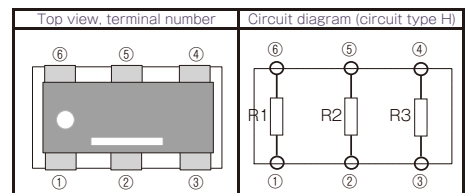
*1 TCR guaranteed range : -20°C~ 125°C

*2 Contact us for detailed information on relative tolerance and TCR.

○ 4 terminal, 3 element



○ 6 terminal, 3 element



| Type | Power rating (85°C) | Resistance range (Ω) | Resistance tolerance (Code) | | | | Temperature coefficient of resistance (Code) ^{*1} | | | | Packaging quantity (designation) |
|--------|--------------------------------------|----------------------|-----------------------------------|---|-----------------------------------|-----------------------------------|--|---|---|------------------------------|---|
| | | | Absolute tolerance | Relative tolerance ^{*2} | | | Absolute tolerance | Relative tolerance ^{*2} | | | |
| | | | | Resistance ratio = 1 | 1 < Resistance ratio ≤ 100 | 100 < Resistance ratio ≤ 500 | | Resistance ratio = 1 | 1 < Resistance ratio ≤ 100 | 100 < Resistance ratio ≤ 500 | |
| RM3216 | 0.042W / Element 0.125W / Package | 100 ~ <300 | ±0.1%(B) ±0.5%(D) | ±0.02%(P) ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | - | ±10ppm/°C(N) ±25ppm/°C(P) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±2ppm/°C(W) ±5ppm/°C(V) | - | tape & reel (T&R) 10=1,000pcs 50=5,000pcs |
| | | 300 ~ 100k | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.01%(L) ±0.02%(P) ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±5ppm/°C(V) ±10ppm/°C(N) ±25ppm/°C(P) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±2ppm/°C(W) ±5ppm/°C(V) | |
| RM3225 | 0.066W / Element 0.2W / Package | 100 ~ <300 | ±0.1%(B) ±0.5%(D) | ±0.02%(P) ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | - | ±10ppm/°C(N) ±25ppm/°C(P) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±2ppm/°C(W) ±5ppm/°C(V) | - | |
| | | 300 ~ 100k | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.01%(L) ±0.02%(P) ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±5ppm/°C(V) ±10ppm/°C(N) ±25ppm/°C(P) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±2ppm/°C(W) ±5ppm/°C(V) | |

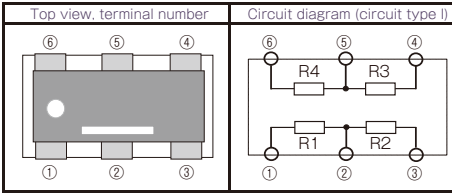
*1 TCR guaranteed range : -20°C ~ 125°C

*2 Contact us for detailed information on relative tolerance and TCR.

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RM series

6 terminal, 4 element

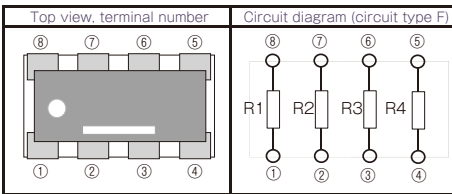


| Type | Power ratings (85°C) | Resistance range (Ω) | Resistance tolerance (Code) | | | | Temperature coefficient of resistance (Code) ^{*1} | | | | Packaging quantity (designation) |
|--------|--------------------------------------|----------------------|-----------------------------------|---|-----------------------------------|---|--|---|----------------------------|------------------------------|----------------------------------|
| | | | Absolute tolerance | Relative tolerance ^{*2} | | | Absolute tolerance | Relative tolerance ^{*2} | | | |
| | | | | Resistance ratio = 1 | 1 < Resistance ratio ≤ 100 | 100 < Resistance ratio ≤ 500 | | Resistance ratio = 1 | 1 < Resistance ratio ≤ 100 | 100 < Resistance ratio ≤ 500 | |
| RM3216 | 0.032W / Element 0.125W / Package | 100 ~ < 300 | ±0.1%(B) ±0.5%(D) | ±0.02%(P) ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | - | ±10ppm/°C(N) ±25ppm/°C(P) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±2ppm/°C(W) ±5ppm/°C(V) | - | tape & reel (T&R) |
| | | 300 ~ 100k | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.01%(L) ±0.02%(P) ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±5ppm/°C(V) ±10ppm/°C(N) ±25ppm/°C(P) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±2ppm/°C(W) ±5ppm/°C(V) | | |
| RM3225 | 0.05W / Element 0.2W / Package | 100 ~ < 300 | ±0.1%(B) ±0.5%(D) | ±0.02%(P) ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | - | ±10ppm/°C(N) ±25ppm/°C(P) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±2ppm/°C(W) ±5ppm/°C(V) | - | 10=1,000pcs 50=5,000pcs |
| | | 300 ~ 100k | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.01%(L) ±0.02%(P) ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±5ppm/°C(V) ±10ppm/°C(N) ±25ppm/°C(P) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±2ppm/°C(W) ±5ppm/°C(V) | | |

*1 TCR guaranteed range : -20°C ~ 125°C

*2 Contact us for detailed information on relative tolerance and TCR.

8 terminal, 4 element

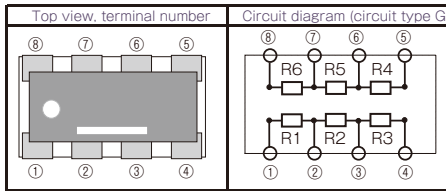


| Type | Power ratings (85°C) | Resistance range (Ω) | Resistance tolerance (Code) | | | | Temperature coefficient of resistance (Code) ^{*1} | | | | Packaging quantity (designation) |
|--------|--------------------------------------|----------------------|-----------------------------------|---|-----------------------------------|---|--|---|----------------------------|------------------------------|----------------------------------|
| | | | Absolute tolerance | Relative tolerance ^{*2} | | | Absolute tolerance | Relative tolerance ^{*2} | | | |
| | | | | Resistance ratio = 1 | 1 < Resistance ratio ≤ 100 | 100 < Resistance ratio ≤ 500 | | Resistance ratio = 1 | 1 < Resistance ratio ≤ 100 | 100 < Resistance ratio ≤ 500 | |
| RM3216 | 0.032W / Element 0.125W / Package | 100 ~ < 300 | ±0.1%(B) ±0.5%(D) | ±0.02%(P) ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | - | ±10ppm/°C(N) ±25ppm/°C(P) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±2ppm/°C(W) ±5ppm/°C(V) | - | tape & reel (T&R) |
| | | 300 ~ 100k | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.01%(L) ±0.02%(P) ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±5ppm/°C(V) ±10ppm/°C(N) ±25ppm/°C(P) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±2ppm/°C(W) ±5ppm/°C(V) | | |
| RM3225 | 0.05W / Element 0.2W / Package | 100 ~ < 300 | ±0.1%(B) ±0.5%(D) | ±0.02%(P) ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | - | ±10ppm/°C(N) ±25ppm/°C(P) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±2ppm/°C(W) ±5ppm/°C(V) | - | 10=1,000pcs 50=5,000pcs |
| | | 300 ~ 100k | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.01%(L) ±0.02%(P) ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±5ppm/°C(V) ±10ppm/°C(N) ±25ppm/°C(P) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±2ppm/°C(W) ±5ppm/°C(V) | | |
| RM6432 | 0.1W / Element 0.4W / Package | 100 ~ < 300 | ±0.1%(B) ±0.5%(D) | ±0.02%(P) ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | - | ±10ppm/°C(N) ±25ppm/°C(P) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±2ppm/°C(W) ±5ppm/°C(V) | - | tape & reel (T&R) |
| | | 300 ~ 1M | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.01%(L) ±0.02%(P) ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±5ppm/°C(V) ±10ppm/°C(N) ±25ppm/°C(P) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±2ppm/°C(W) ±5ppm/°C(V) | | |

*1 TCR guaranteed range : -20°C ~ 125°C

*2 Contact us for detailed information on relative tolerance and TCR.

○ 8 terminal, 6 element

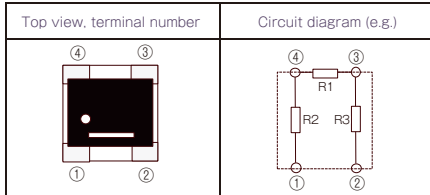


| Type | Power ratings (85°C) | Resistance range (Ω) | Resistance tolerance (Code) | | | | Temperature coefficient of resistance (Code) ^{*1} | | | | Packaging quantity (designation) |
|--------|--------------------------------------|----------------------|-----------------------------------|---|-----------------------------------|---|--|---|----------------------------|------------------------------|---|
| | | | Absolute tolerance | Relative tolerance ^{*2} | | | Absolute tolerance | Relative tolerance ^{*2} | | | |
| | | | | Resistance ratio = 1 | 1 < Resistance ratio ≤ 100 | 100 < Resistance ratio ≤ 500 | | Resistance ratio = 1 | 1 < Resistance ratio ≤ 100 | 100 < Resistance ratio ≤ 500 | |
| RM3216 | 0.021W / Element 0.125W / Package | 100 ~ <300 | ±0.1%(B) ±0.5%(D) | ±0.02%(P) ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | - | ±10ppm/°C(N) ±25ppm/°C(P) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±2ppm/°C(W) ±5ppm/°C(V) | - | tape & reel (T&R) 10=1,000pcs 50=5,000pcs |
| | | 300 ~ 100k | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.01%(L) ±0.02%(P) ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±5ppm/°C(V) ±10ppm/°C(N) ±25ppm/°C(P) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±2ppm/°C(W) ±5ppm/°C(V) | | |
| RM3225 | 0.033W / Element 0.2W / Package | 100 ~ <300 | ±0.1%(B) ±0.5%(D) | ±0.02%(P) ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | - | ±10ppm/°C(N) ±25ppm/°C(P) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±2ppm/°C(W) ±5ppm/°C(V) | - | |
| | | 300 ~ 100k | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.01%(L) ±0.02%(P) ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±5ppm/°C(V) ±10ppm/°C(N) ±25ppm/°C(P) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±2ppm/°C(W) ±5ppm/°C(V) | | |
| RM6432 | 0.066W / Element 0.4W / Package | 100 ~ <300 | ±0.1%(B) ±0.5%(D) | ±0.02%(P) ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | - | ±10ppm/°C(N) ±25ppm/°C(P) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±2ppm/°C(W) ±5ppm/°C(V) | - | |
| | | 300 ~ 1M | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.01%(L) ±0.02%(P) ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±0.05%(W) ±0.1%(B) ±0.5%(D) | ±5ppm/°C(V) ±10ppm/°C(N) ±25ppm/°C(P) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±1ppm/°C(X) ±2ppm/°C(W) ±5ppm/°C(V) | ±2ppm/°C(W) ±5ppm/°C(V) | | |

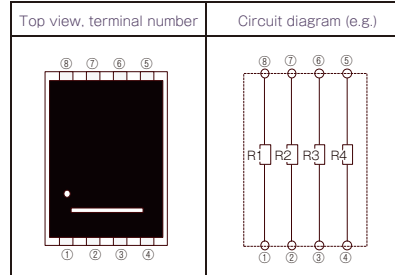
*1 TCR guaranteed range : -20°C ~ 125°C
*2 Contact us for detailed information on relative tolerance and TCR.

○ Some examples of custom RM series

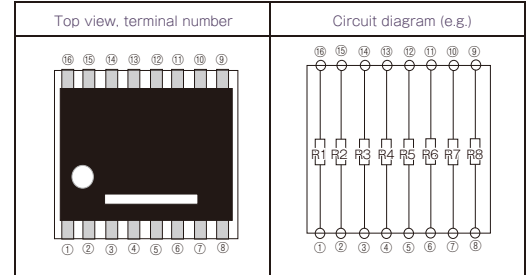
RM2525(2.5mm × 2.5mm)



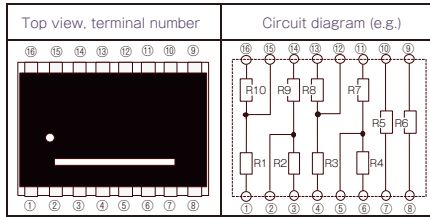
RM5882(5.8mm × 8.2mm)



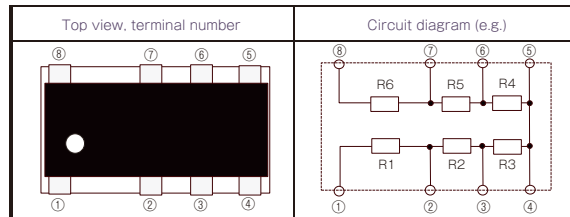
RM10280(10.2mm × 7.2mm)



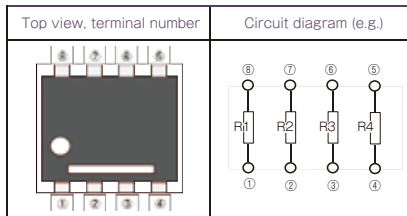
RM8258(8.2mm × 5.8mm)



RM11264(11.2mm × 6.4mm)



RM5050(5.0mm × 5.0mm)



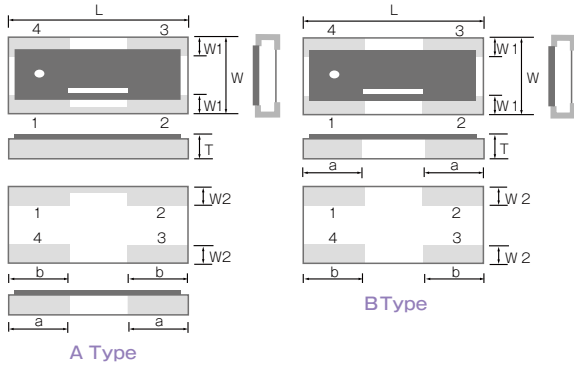
Thin film surface mount resistors
RM series

Metal thin film chip resistor networks

RM series

◆ Dimensions

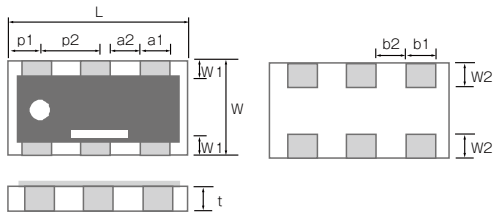
Thin film surface mount resistors



RM series

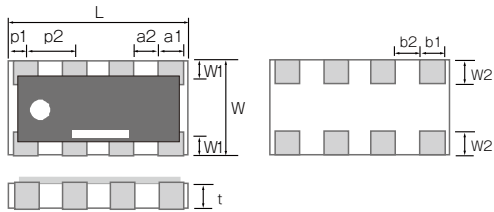
| 4 terminal | | | | | | | | |
|------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Type | Size (inch) | L | W | t | a | b | W1 | W2 |
| RM2012 | 0805 | 2.00±0.20 | 1.25±0.20 | 0.45±0.10 | 0.50±0.20 | 0.60±0.20 | 0.40±0.20 | 0.35±0.20 |
| RM3216 | 1206 | 3.20±0.20 | 1.60±0.20 | 0.45±0.10 | 1.00±0.25 | 1.00±0.20 | 0.40±0.25 | 0.40±0.20 |
| RM3225 | 1209 | 3.20±0.20 | 2.50±0.20 | 0.45±0.10 | 1.00±0.25 | 1.00±0.20 | 0.40±0.25 | 0.60±0.20 |

(unit : mm)



| 6 terminal | | | | | | | | | | | | |
|------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Type | Size (inch) | L | W | t | a1 | a2 | b1 | b2 | p1 | p2 | W1 | W2 |
| RM3216 | 1206 | 3.20±0.20 | 1.60±0.20 | 0.45±0.10 | 0.50±0.20 | 0.45±0.20 | 0.50±0.20 | 0.45±0.20 | 0.63±0.20 | 0.95±0.10 | 0.23±0.20 | 0.40±0.20 |
| RM3225 | 1209 | 3.20±0.20 | 2.50±0.20 | 0.45±0.10 | 0.50±0.10 | 0.45±0.10 | 0.50±0.10 | 0.45±0.10 | 0.63±0.20 | 0.95±0.10 | 0.30±0.20 | 0.50±0.20 |

(unit : mm)



| 8 terminal | | | | | | | | | | | | |
|------------|-------------|-----------|-----------|-----------|---------------------|---------------------|---------------------|---------------------|-----------|-----------|-----------|-----------|
| Type | Size (inch) | L | W | t | a1 | a2 | b1 | b2 | p1 | p2 | W1 | W2 |
| RM3216 | 1206 | 3.20±0.20 | 1.60±0.20 | 0.45±0.10 | 0.50±0.20 | 0.40±0.20 | 0.50±0.20 | 0.45±0.20 | 0.40±0.20 | 0.80±0.10 | 0.30±0.20 | 0.40±0.20 |
| RM3225 | 1209 | 3.20±0.20 | 2.50±0.20 | 0.45±0.10 | 0.40 +0.20/-0.10 | 0.40 +0.10/-0.20 | 0.40 +0.10/-0.20 | 0.40 +0.10/-0.20 | 0.40±0.20 | 0.80±0.10 | 0.30±0.20 | 0.40±0.20 |
| RM6432 | 2512 | 6.40±0.20 | 3.20±0.20 | 0.50±0.10 | 0.66 +0.20/-0.10 | 0.94 +0.10/-0.20 | 0.66 +0.20/-0.10 | 0.94 +0.10/-0.20 | 0.80±0.20 | 1.60±0.10 | 0.50±0.20 | 0.60±0.10 |

(unit : mm)

◆ Reliability specification

| Test items | Condition (test methods (MIL-PRF-55342/JIS C5201-1)) | Standard | |
|--------------------------------|---|--------------------|--------------------|
| | | Absolute tolerance | Relative tolerance |
| Short time overload | 2.5 x rated voltage,*1 5seconds | ±(0.05%+0.01Ω) | ±0.02% |
| Life (biased) | 85°C, rated voltage,*1 90min on 30min off, 1000hours | ±(0.05%+0.01Ω) | ±0.02% |
| High temperature high humidity | 85°C, 85%RH, 1/10 of rated power, 90min on 30min off, 1000hours | ±(0.05%+0.01Ω) | ±0.02% |
| Temperature shock | -55°C (38min) ~ 125°C (30min) 1000cycles*2 | ±(0.05%+0.01Ω) | ±0.02% |
| High temperature exposure | 155°C, no bias, 100hours | ±(0.05%+0.01Ω) | ±0.02% |
| Resistance to soldering heat | 260±5°C, 10 seconds (reflow) | ±(0.05%+0.01Ω) | ±0.02% |

*1 Rated voltage is given by $E = \sqrt{R \times P}$

E= rated voltage (V), R=nominal resistance value(Ω), P=rated power(W)

If rated voltage exceeds maximum voltage /element, maximum voltage/element is the rated voltage.

*2 Based on the tests done on RM316.RM3225.

Please contact our sales office for other or custom dimensional products

Metal thin film chip resistor networks

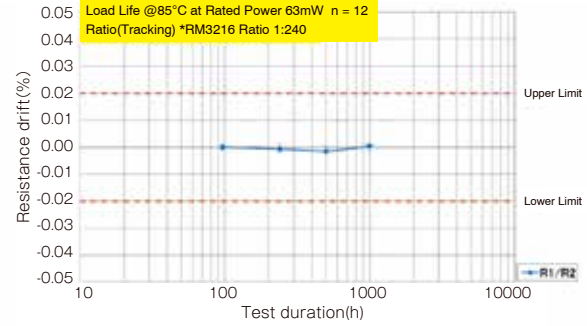
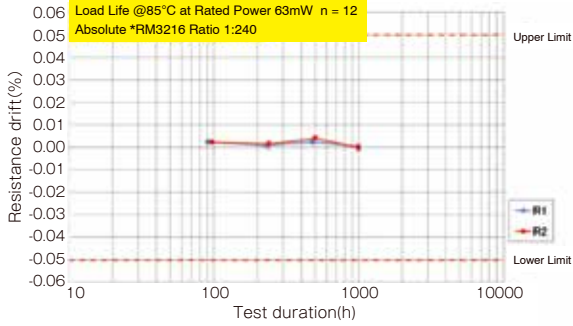
RM series

Reliability test data

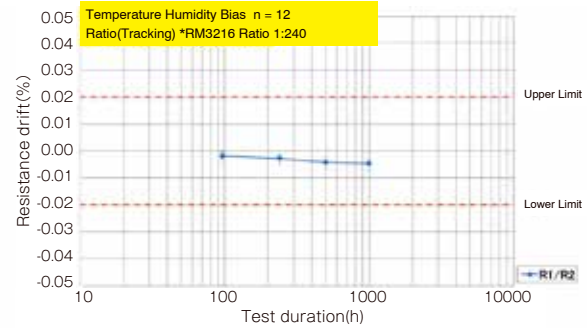
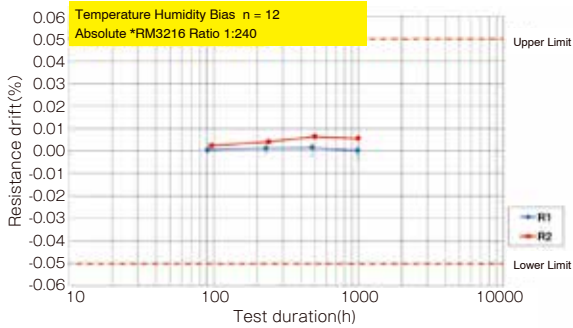
Thin film surface mount resistors

RM series

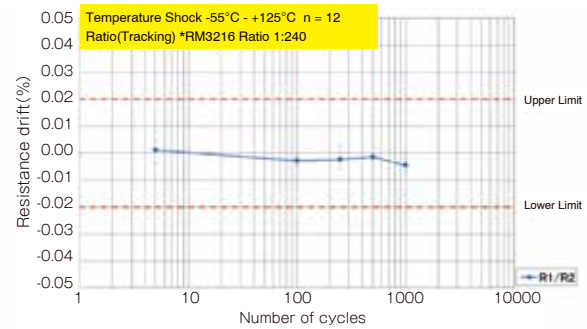
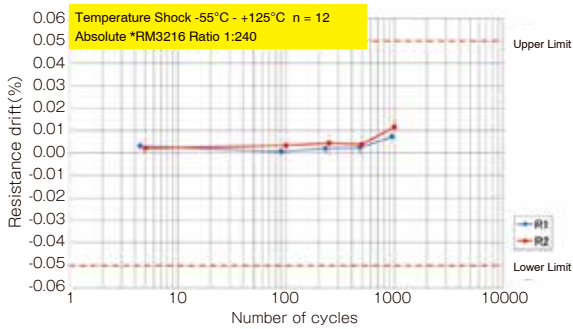
Load life with rated power @85°C



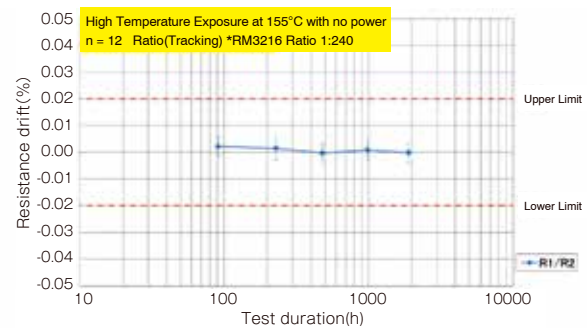
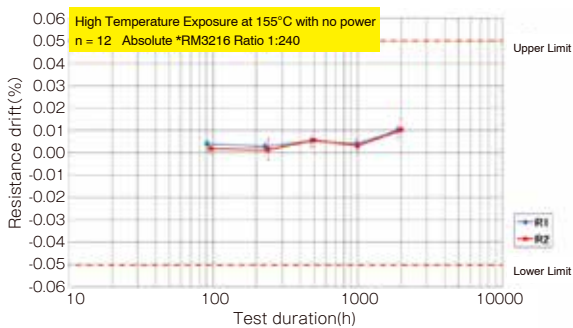
High temperature high humidity (biased)



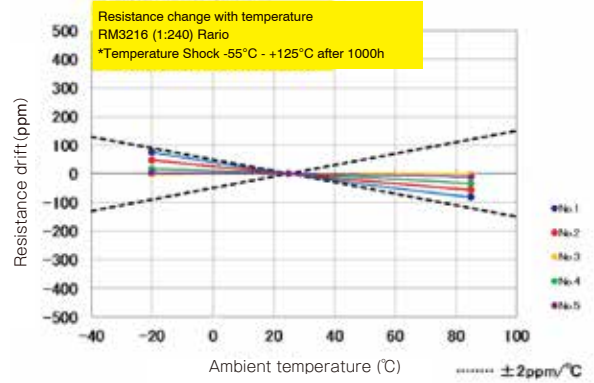
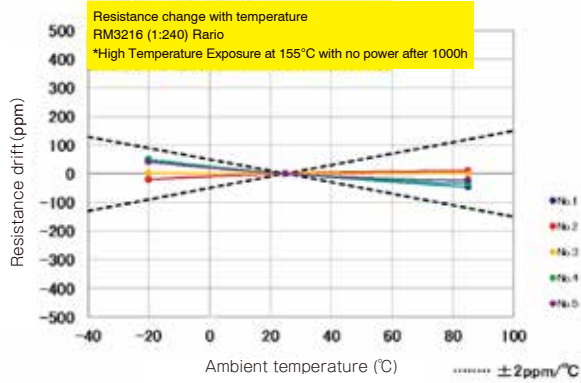
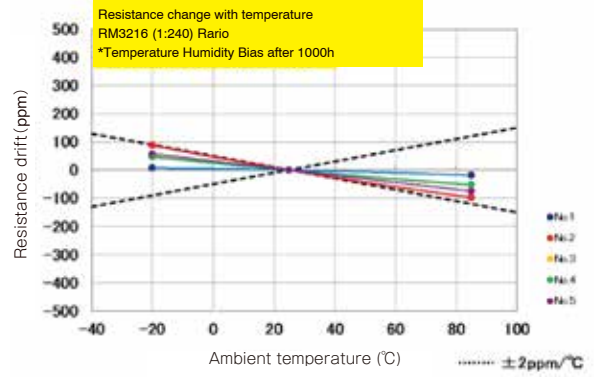
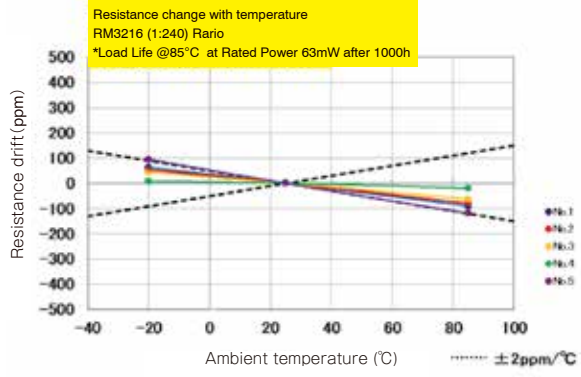
Temperature shock



High temperature exposure (155°C)



◆TCR linearity



Thin film surface mount resistors

RM series

◆Derating Curve

