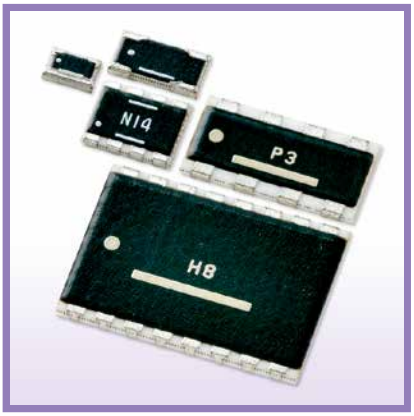



# Metal thin film chip resistor networks

## ■RM series

**AEC-Q200 Compliant**

## Features

- Relative resistance tolerance and relative TCR definable among multiple resistors within package.
- Relative resistance tolerance: ±0.01%, relative TCR: ±1ppm/°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 ±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**

- RM: Series code
- 2012: Size: RM2012, RM3216, RM3225
- A: circuits
- ***/***: Nominal Resistance Value(R1/R2)
- P: Absolute TCR
- W: Absolute resistance tolerance
- X: Relative TCR
- L: Relative resistance tolerance
- 10: Packaging quantity: 10(1,000pcs), 50(5,000pcs)

**RM 3216 C - *** - 10**

- RM: Series code
- 3216: Size: RM3216, RM3225, RM6432
- C: circuits
- ***: Custom part number (e.g.)N10
- 10: 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.

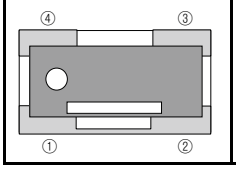
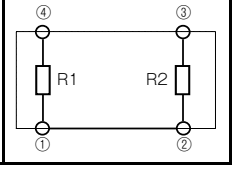
※ Standard resistance value pairings are shown as below
(Standard products are 2element circuit typeA & typeB only.)

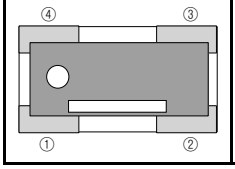
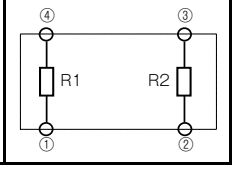
## ◆Standard resistance value pairings

| 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 | 1 : 10 | 1k | 10k | | 5k | 100k | 1 :100 | 1K | 100k |
| 1 : 2 | 1k | 2k | 1 : 4 | 1k | 4k | 1 : 6 | 1k | 6k | | 2k | 20k | 1 : 25 | 1k | 25k | | 2K | 200k |
| | 10k | 20k | | 10k | 40k | | 10k | 60k | | 10k | 100k | | 2k | 50k | | | |
| | 100k | 200k | | | | | | | | | | | | | | | |

# ◆Electrical Specification

## ○ 4 terminal, 2 element

| Top view, terminal number | Circuit diagram (circuit type A) |
|---|---|
|  |  |

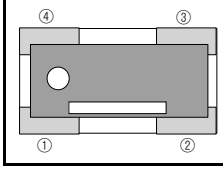
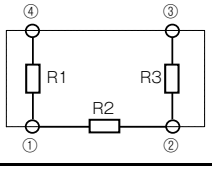
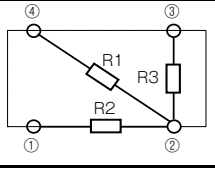
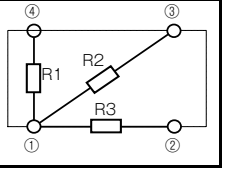
| Top view, terminal number | Circuit diagram (circuit type B) |
|---|---|
|  |  |

| Type | Power ratings (85°C) | Resistance range (Ω) | Resistance tolerance (Code) | | | Temperature coefficient of resistance (Code)*1 | | | Pakaging 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/℃(N) ±25ppm/℃(P) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±2ppm/℃(W) ±5ppm/℃(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/℃(V) ±10ppm/℃(N) ±25ppm/℃(P) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±2ppm/℃(W) ±5ppm/℃(V) |
| RM3216 | 0.083W / 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/℃(N) ±25ppm/℃(P) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±2ppm/℃(W) ±5ppm/℃(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) | ±5ppm/℃(V) ±10ppm/℃(N) ±25ppm/℃(P) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±2ppm/℃(W) ±5ppm/℃(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/℃(N) ±25ppm/℃(P) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±2ppm/℃(W) ±5ppm/℃(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) | ±5ppm/℃(V) ±10ppm/℃(N) ±25ppm/℃(P) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±2ppm/℃(W) ±5ppm/℃(V) |

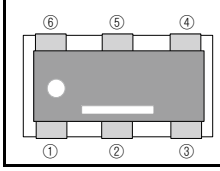
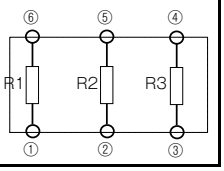
*1 TCR guaranteed range : -20°C ~ 125°C

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

## ○ 4 terminal, 3 element

| Top view, terminal number | Circuit diagram (circuit type C) | Circuit diagram (circuit type D) | Circuit diagram (circuit type E) |
|---|---|---|---|
|  |  |  |  |

## ○ 6 terminal, 3 element

| Top view, terminal number | Circuit diagram (circuit type H) |
|---|---|
|  |  |

| Type | Power rating (85°C) | Resistance range (Ω) | Resistance tolerance (Code) | | | Temperature coefficient of resistance (Code)*1 | | | Pakaging 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/℃(N) ±25ppm/℃(P) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±2ppm/℃(W) ±5ppm/℃(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/℃(V) ±10ppm/℃(N) ±25ppm/℃(P) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±2ppm/℃(W) ±5ppm/℃(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/℃(N) ±25ppm/℃(P) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±2ppm/℃(W) ±5ppm/℃(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/℃(V) ±10ppm/℃(N) ±25ppm/℃(P) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±2ppm/℃(W) ±5ppm/℃(V) |

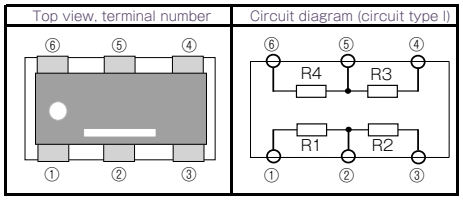
*1 TCR guaranteed range : -20°C ~ 125°C

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

# Metal thin film chip resistor networks

## ■RM series

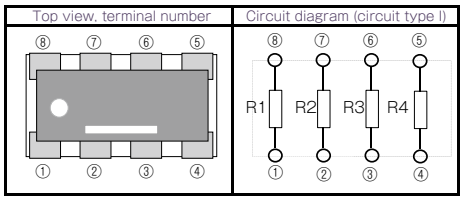
### ◯ 6 terminal, 4 element




| Type | Power ratings (85°C) | Resistance range (Ω) | Resistance tolerance (Code) | | | Temperature coefficient of resistance (Code)*1 | | | | Pakaging 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/℃(N) ±25ppm/℃(P) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±2ppm/℃(W) ±5ppm/℃(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/℃(V) ±10ppm/℃(N) ±25ppm/℃(P) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±2ppm/℃(W) ±5ppm/℃(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/℃(N) ±25ppm/℃(P) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±2ppm/℃(W) ±5ppm/℃(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/℃(V) ±10ppm/℃(N) ±25ppm/℃(P) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±2ppm/℃(W) ±5ppm/℃(V) | |

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

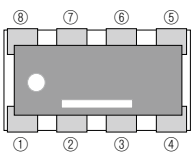
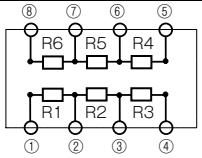
### ◯ 8 terminal, 4 element




| Type | Power ratings (85°C) | Resistance range (Ω) | Resistance tolerance (Code) | | | Temperature coefficient of resistance (Code)*1 | | | | Pakaging 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/℃(N) ±25ppm/℃(P) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±2ppm/℃(W) ±5ppm/℃(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/℃(V) ±10ppm/℃(N) ±25ppm/℃(P) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±2ppm/℃(W) ±5ppm/℃(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/℃(N) ±25ppm/℃(P) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±2ppm/℃(W) ±5ppm/℃(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/℃(V) ±10ppm/℃(N) ±25ppm/℃(P) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±2ppm/℃(W) ±5ppm/℃(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/℃(N) ±25ppm/℃(P) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±2ppm/℃(W) ±5ppm/℃(V) | - | tape & reel (T&R) 10=1,000pcs 40=4,000pcs |
| | | 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/℃(V) ±10ppm/℃(N) ±25ppm/℃(P) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±2ppm/℃(W) ±5ppm/℃(V) | |

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

## ◯ 8 terminal, 6 element

| Top view, terminal number | Circuit diagram (circuit type G) |
|---|---|
|  |  |

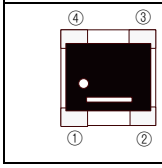
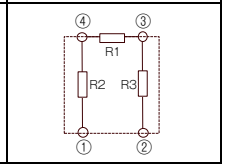
| Type | Power ratings (85°C) | Resistance range (Ω) | Resistance tolerance (Code) | | | Temperature coefficient of resistance (Code)*1 | | | Pakaging quantity (designation) |
|---|---|---|---|---|---|---|---|---|---|
| | | | Absolute tolerance | Relative tolerance*2 | | Absolute tolerance | Relative 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/℃(N) ±25ppm/℃(P) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±2ppm/℃(W) ±5ppm/℃(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/℃(V) ±10ppm/℃(N) ±25ppm/℃(P) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±2ppm/℃(W) ±5ppm/℃(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/℃(N) ±25ppm/℃(P) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±2ppm/℃(W) ±5ppm/℃(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/℃(V) ±10ppm/℃(N) ±25ppm/℃(P) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±2ppm/℃(W) ±5ppm/℃(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/℃(N) ±25ppm/℃(P) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±2ppm/℃(W) ±5ppm/℃(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/℃(V) ±10ppm/℃(N) ±25ppm/℃(P) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±1ppm/℃(X) ±2ppm/℃(W) ±5ppm/℃(V) | ±2ppm/℃(W) ±5ppm/℃(V) |

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

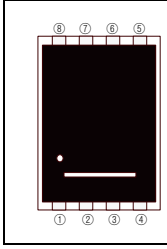
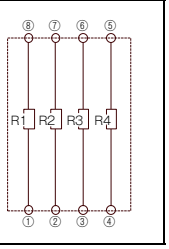
*2 Contact us for detailed information on relative tolerance and TCR.

## ◯ Some examples of custom RM series

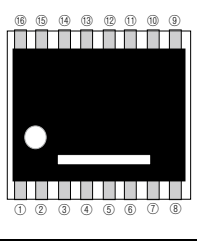
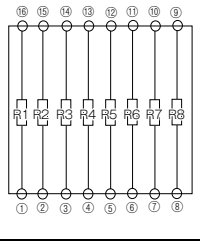
RM2525(2.5mm×2.5mm)

| Top view, terminal number | Circuit diagram (e.g.) |
|---|---|
|  |  |

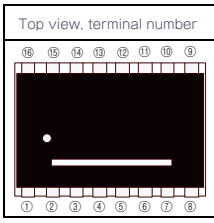
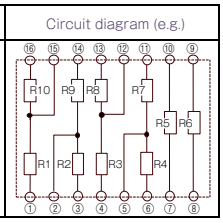
RM5882(5.8mm×8.2mm)

| Top view, terminal number | Circuit diagram (e.g.) |
|---|---|
|  |  |

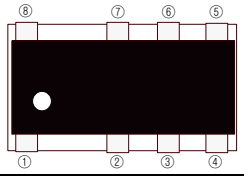
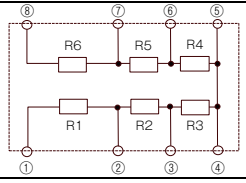
RM10280(10.2mm×7.2mm)

| Top view, terminal number | Circuit diagram (e.g.) |
|---|---|
|  |  |

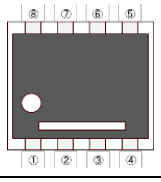
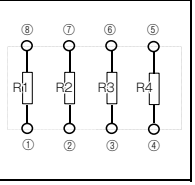
RM8258(8.2mm×5.8mm)

| Top view, terminal number | Circuit diagram (e.g.) |
|---|---|
|  |  |

RM11264(11.2mm×6.4mm)

| Top view, terminal number | Circuit diagram (e.g.) |
|---|---|
|  |  |

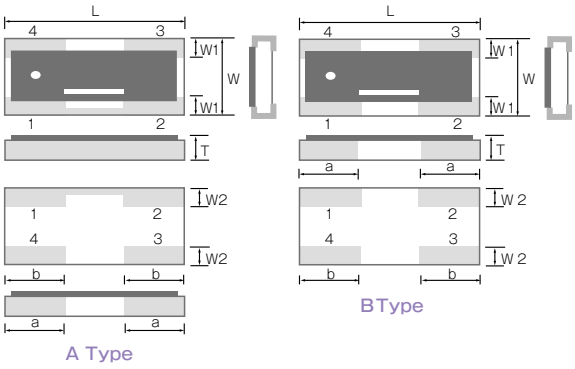
RM5050(5.0mm×5.0mm)

| Top view, terminal number | Circuit diagram (e.g.) |
|---|---|
|  |  |

# Metal thin film chip resistor networks

## ■RM series

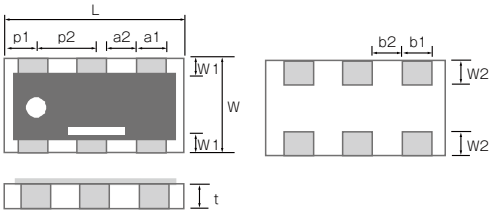
### ◆Dimensions




**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 |

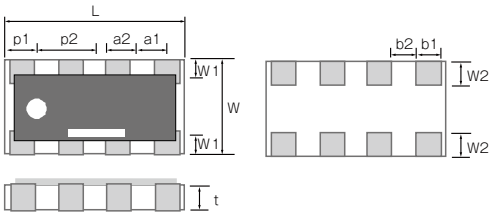
(unit : mm)




**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

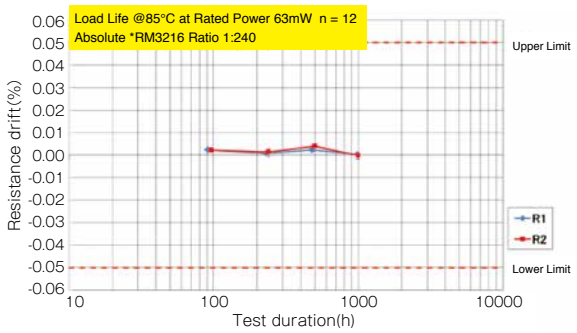
# Metal thin film chip resistor networks

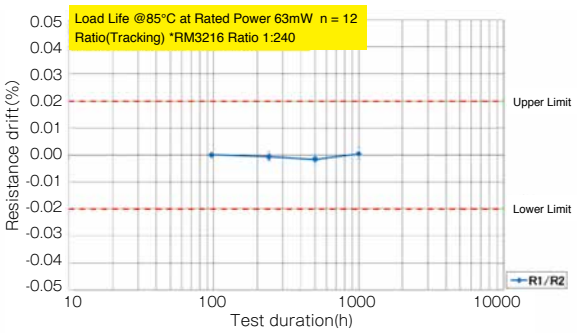
## ■RM series

## ◆Reliability test data

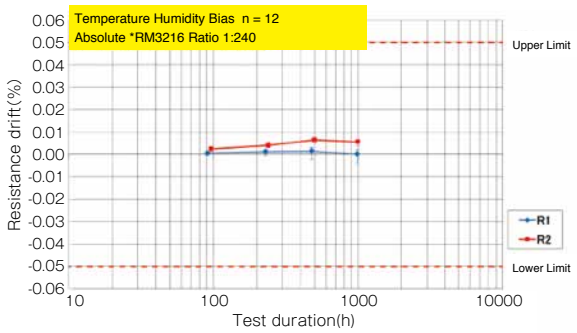


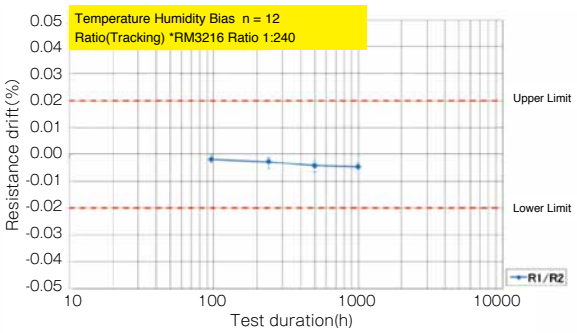
### ○Load life with rated power @85°C



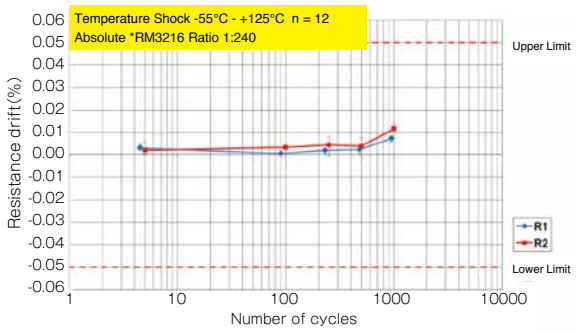



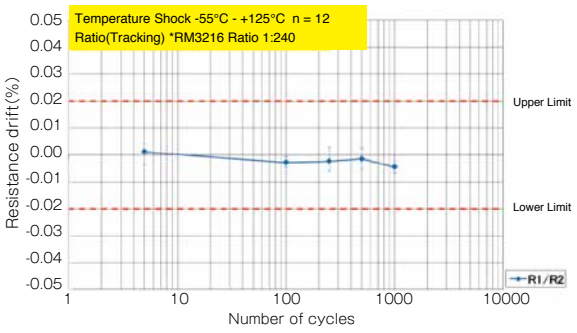

### ○High temperature high humidity (biased)



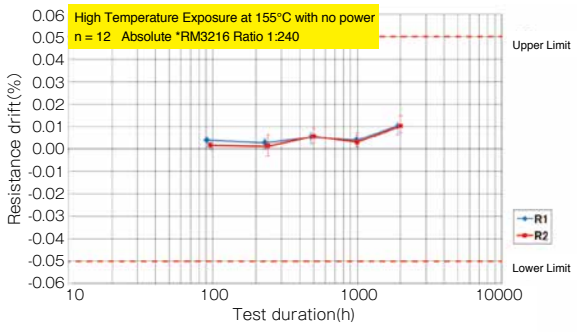



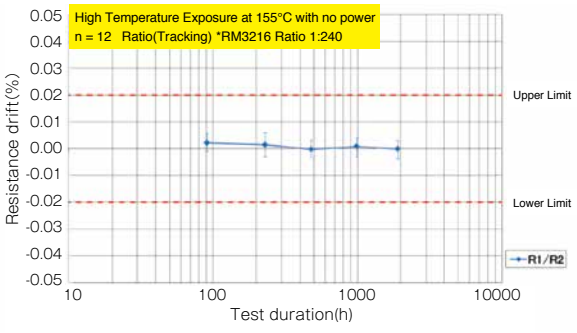

### ○Temperature shock



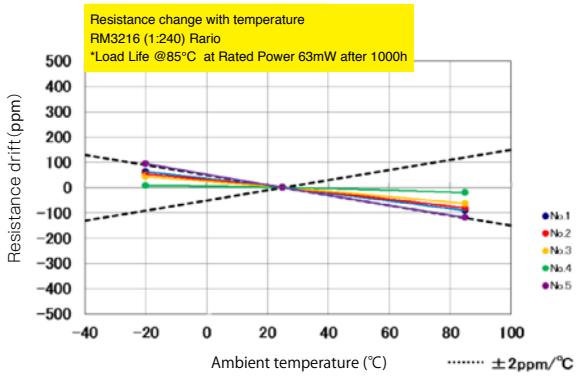



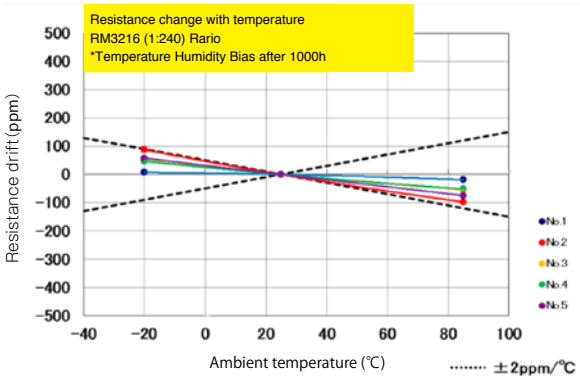

### ○High temperature exposure (155°C)

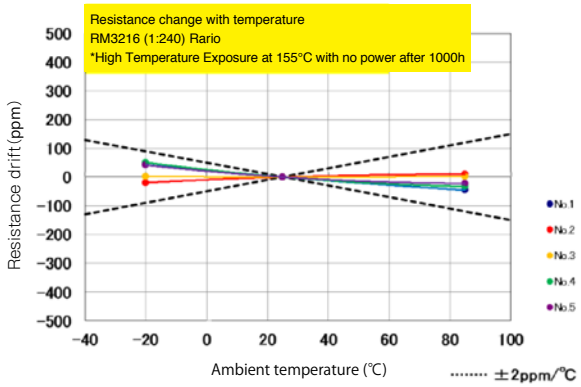


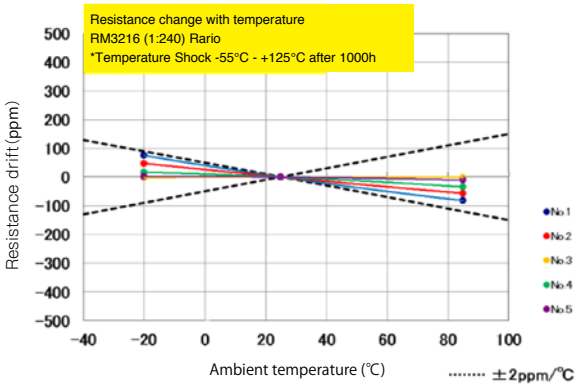



## ◆TCR linearity

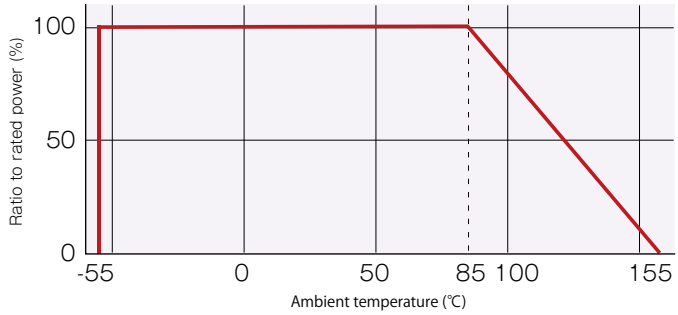



## ◆Derating Curve



# Mouser Electronics

Authorized Distributor

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Susumu:

RM2012B-102/104-PBVW10 RM2012B-102/202-PBVW10 RM2012B-102/203-PBVW10 RM2012B-102/253-PBVW10
RM2012B-102/302-PBVW10 RM2012B-102/502-PBVW10 RM2012B-102/503-PBVW10 RM2012B-102/602-PBVW10
RM2012B-102/902-PBVW10 RM2012B-103/104-PBVW10 RM2012B-103/203-PBVW10 RM2012B-103/503-PBVW10
RM2012B-103/603-PBVW10 RM2012B-103/903-PBVW10 RM2012B-202/103-PBVW10 RM2012B-202/203-PBVW10
RM2012B-202/403-PBVW10 RM2012B-202/503-PBVW10 RM2012B-502/104-PBVW10 RM3216A-102/503-PBVW10
RM3216A-103/104-PBVW10 RM3216A-202/503-PBVW10 RM3216B-103/103-PBVW10 RM3216B-103/104-PBVW10
RM3216B-103/203-PBVW10 RM3216B-103/403-PBVW10 RM3216B-103/503-PBVW10 RM3216B-103/603-PBVW10
RM2012-103/103-VPXL10 RM2012-102/202-VPWP10 RM3216-103/303-VPWP10 RM2012-104/204-VPWP10
RM3216-104/304-VPWP10 RM3216F-104/104-NBWP10 RM3216-102/102-VPXL10 RM3216-102/202-VPWP10
RM2012-103/303-VPWP10 RM3216F-102/102-NBWP10 RM2012-104/104-VPXL10 RM3216-104/104-VPXL10
RM3216-102/302-VPWP10 RM2012-103/203-VPWP10 RM3216F-103/103-NBWP10 RM3216-104/204-VPWP10
RM2012-104/304-VPWP10 RM2012-102/302-VPWP10 RM3216-103/203-VPWP10 RM3216-103/103-VPXL10
RM2012-102/102-VPXL10

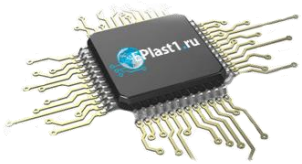
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.




**Как с нами связаться**

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**Факс:** 8 (812) 320-02-42
**Электронная почта:** org@eplast1.ru
**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.