

Resistor Networks (RM · RY)

A number of resistors are packed in a small package, for high density mounting. The excellent characteristics of thick film resistors are designed by ROHM through long experience in this field. The result is a series of high performance, high reliable resistor network products.

● Resistor Networks

Type	Part No.	Type	Power rating (at 70°C/Element)	Temperature coefficient (ppm/°C)	Resistance tolerance	Resistance range		Package
						All except T circuit	T circuit	
Number of elements specified	RM series	RML	1/8W	X : ±100 General : ±200	F (±1%) G (±2%) J (±5%)	-	FX (GX) 510Ω~10KΩ	SIP 4~14pins
		RMN	1/6W				J 100Ω~1MΩ	
		RMH	1/4W				J 22Ω~2.2MΩ	
Number of elements specified Shrink type	RY series	RYL	0.075W	±300	J (±5%)	33Ω~1MΩ		SIP 4~16pins

● Ladder Networks

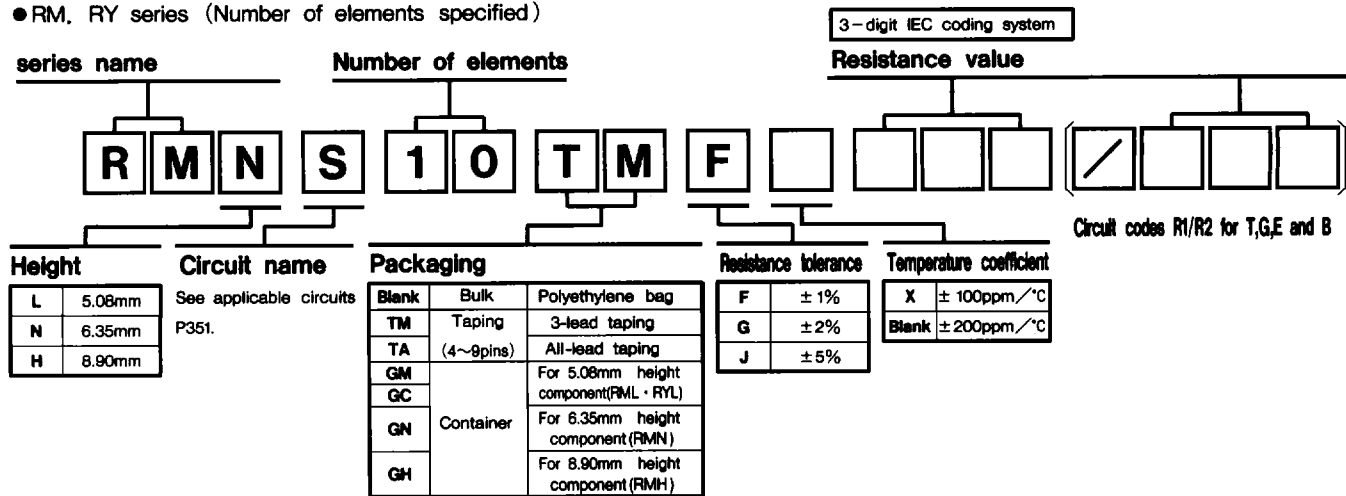
Part No.	Bits	Circuit	Resistance	Linearity	Tolerance	Temp. coefficient
RKM5LW××××	4bit weighting	R/2R/4R/8R	1kΩ~15kΩ	±1/2LSB(±3.12%)	J (±5%) G (±2%) F (±1%)	Absolute ±200ppm/°C Tracking ±50ppm/°C
RKM6LW××××	5bit weighting	R/2R/4R/8R/16R		±1/2LSB(±1.56%)		
RKM7LW××××	6bit weighting	R/2R/4R/8R/16R/32R		±1/2LSB(±0.78%)		
RKM8LW××××	7bit weighting	R/2R/4R/8R/16R/32R/64R		±1/2LSB(±0.39%)		
RKM6L××××	R/2R 4bit	R/2R	750Ω~120kΩ	±1/2LSB(±3.12%)	J (±5%) G (±2%) F (±1%)	Absolute ±200ppm/°C Tracking ±50ppm/°C
RKM7L××××	R/2R 5bit	R/2R		±1/2LSB(±1.56%)		
RKM8L××××	R/2R 6bit	R/2R		±1/2LSB(±0.78%)		
RKM9L××××	R/2R 7bit	R/2R		±1/2LSB(±0.39%)		
RKM10L××××	R/2R 8bit	R/2R		±1/2LSB(±0.20%)		

Note : 1.No. of pins, instead of elements.

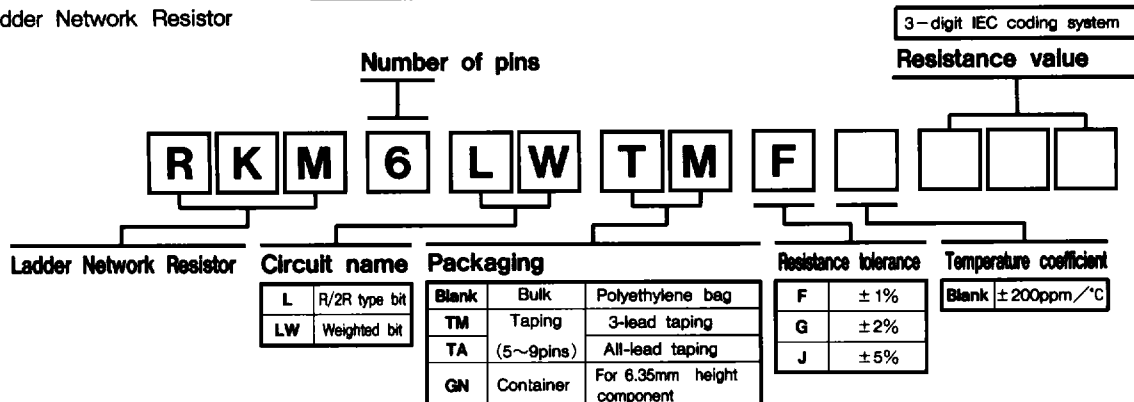
● Product Designation

- When ordering, specify the type.
- Check each code against the code tables shown below.
- Fill a space with the next character.

● RM, RY series (Number of elements specified)



● Ladder Network Resistor



Resistor Networks (RM · RY)

●Dimensions list

(Unit : mm)

Type	Outward (example)	Dimensions (mm)	H Max.	P	L Max.	h
RML			5.08			
RMN			6.35	2.54 ± 0.1	2.54 × (number of pins - 1) + 2.5	
RMH			8.90			3.2 ^{+0.6} ₀
RYL			5.08	1.778 ± 0.1	1.778 × (number of pins - 1) + 2.5	
RKM			6.35	2.54 ± 0.1	2.54 × (number of pins - 1) + 2.5	

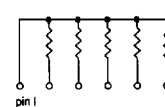
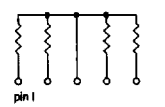
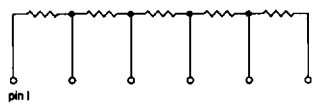
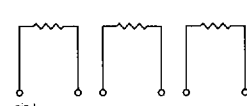
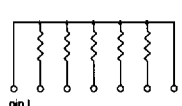
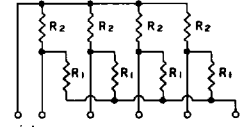
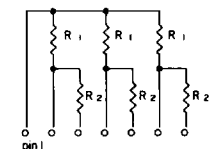
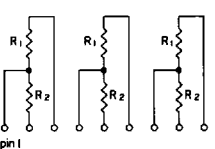
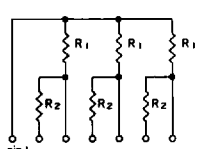
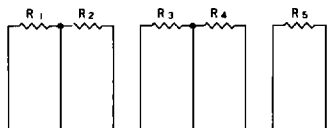
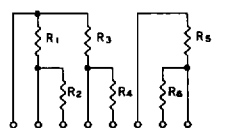
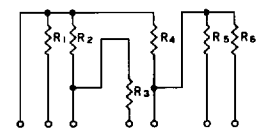
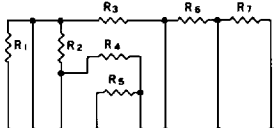
Notes: 1. Standard products have 4 to 14 lead terminals (RM series), 4 to 16 lead terminals (RY series).

2. Up to 18 terminals are available.

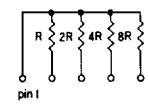
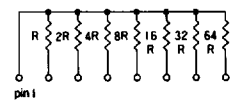
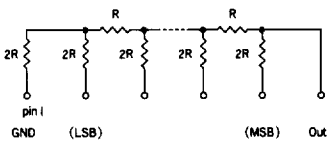
3. RML and RYL available in 3 pin configuration.

●Applicable Circuits

Part No.	Circuit	Standard S Circuit	C Circuit (RM Series) W Circuit (RK Series)	Series H Circuit	Parallel A Circuit	Both end common D Circuit	Terminal T Circuit	Divider B Circuit	Divider E Circuit	Divider G Circuit	Custom
RM	RML	○	○	○	○	○					△
	RMN	○	○	○	○	○	△	○	○	△	△
	RMH	○	○	○	○	○	○	○	○	○	△
RY	RYL	○			○						

Side common(standard)	Center common	Series
Circuit S 	Circuit C (RM Series) Circuit W (RK Series) 	Circuit H 
Parallel	Both end common	Terminator
Circuit A 	Circuit D 	Circuit T (RM Series) Circuit B (RK Series) 
Divider		
Circuit B (RM Series) Circuit F (RK Series) 	Circuit E 	Circuit G 
Custom(example)		
		
		

●Ladder Networks(RKM Type)

Applicable circuits		
4-bit weighting(LW) 	7-bit weighting(LW) 	R/2R n-bit(L) 

Resistor Networks

RESISTORS

Resistor Networks (RM · RY)

●Packaging

Part No.	Packaging type	Code	Packaging style	Quantity/Package (Pcs)	Quantity/Unit (pcs)
RM Series	Bulk	-	Polyethylene bag	200,400 500,1000	100 (50)
RML	4~8Pins	3-lead taping	TM	Ammo Box	1,000
		All-lead taping	TA		
	Container	GM GC	Container tube	100 container tubes	13~60
RMN/RKM	4~8Pins	3-lead taping	TM	Ammo Box	1,000
		All-lead taping	TA		
	Container	GN	Container tube	100 container tubes	13~60
RMH	Container	GH	Container tube	100 container tubes	13~60
RYL	Bulk	-	Polyethylene bag	500,1000	100
	Container	GM	Container tube	100 container tubes	13~60
		GC			

●The Class and Basic Ordering Units for Standard and Semi-standard Products

RM Type	Circuit Symbol	S	C	H	A	D	B	G	E	T	Remarks
	Basic order unit (pcs.)	200,400,500 or 1000									
RML		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	◎, ○ and △ are further classified by the resistance value used.
RMN		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
RMH		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

RY Type	Circuit Symbol	S	A	Remarks
	Basic order unit (pcs.)	500 or 1000		
RYL		<input type="radio"/>	<input type="radio"/>	by the resistance value used.

◎ : Standard product ○ : Semi-standard product

●Packaging Specifications

●Taping

(Unit : mm)

TA (RML/RMN/RKM Series)	TM (RML/RMN/RKM Series)

●Container

(Unit : mm)

Item	Specifications	GM	GC	GN	GH
H		11.0 ± 0.2	13.2 ± 0.2	13.4 ± 0.2	14.5 ± 0.2
W		5.0 ± 0.15	3.8 ± 0.15	3.8 ± 0.15	3.8 ± 0.15
L		508 ± 1.5	508 ± 1.5	508 ± 1.5	580 ± 0.5
Height		For 5.08mm height		For 6.35mm height	For 8.90mm height
Cross section					