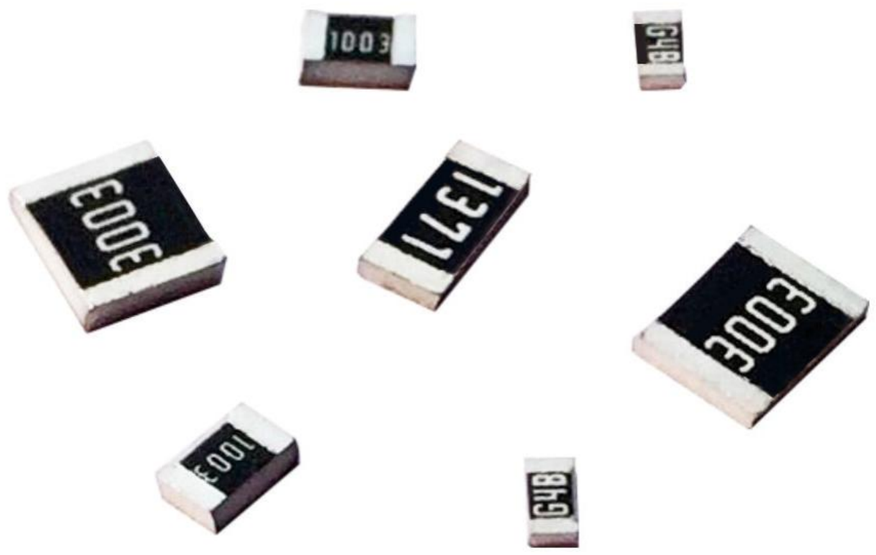
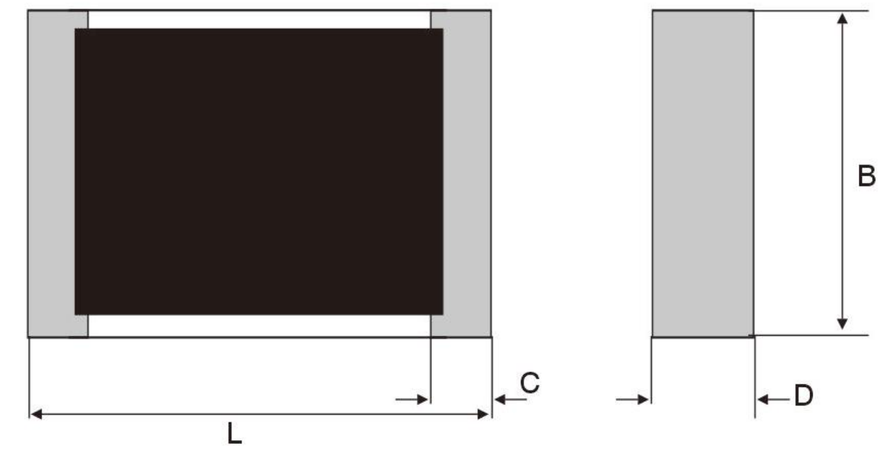
Series RMK

Thin film precision chip Resistors

DOUBLE CIRCLE
双 环



■ Construction



■ Characteristics

- Thin Film Technology
- Resistance element resin--passivated
- High Precision (0.05%)
- Extremely Low Noise

■ Dimensions (mm)

Model	L	B	D	C
RMK1608	1.60±0.20	0.80±0.13	0.40±0.15	0.30±0.20
RMK2012	2.00±0.20	1.25±0.13	0.50±0.15	0.40±0.20
RMK3216	3.20±0.20	1.60±0.13	0.50±0.15	0.50±0.20
RMK3225	3.20±0.20	2.50±0.15	0.50±0.15	0.50±0.20

■ Technical Standard

GJB1432B-2009 General specification for fixed film chip resistors
ZZR-Q/BDS 20020-2019 RMK1608 with failure rate rating Resistors, fixed, film chip, detail specification for

ZZR-Q/BDS 20021-2019 RMK2012 with failure rate rating Resistors, fixed, film chip, detail specification for

ZZR-Q/BDS 20022-2019 RMK3216 with failure rate rating Resistors, fixed, film chip, detail specification for

ZZR-Q/BDS 20023-2019 RMK3225 with failure rate rating Resistors, fixed, film chip, detail specification for

■ Application Area

RMK products are of leadless structure, with gold layer as the bottom layer of the terminal electrode. The surface is electroplated with nickel and tin lead to ensure the stability of the resistance and the reliability of the solder joint. It has the characteristics of small size, light weight, superior performance and reliable quality. It is widely used in aviation, aerospace, shipping, radar, communication, automatic control and other important military fields.

■ Technical Specifications

Type		RMK1608 J	RMK2012 J	RMK3216 J	RMK3225 J
Rated Power at 70℃(W)		0.1	0.15	0.25	0.50
Max Working Voltage (V)		50	50	100	150
Military Standard Certification Range	Resistance Range(Ω)	10R ~ 260K	10R ~ 510K	10R ~ 1M	10R ~ 1M
	Tolerance Range	W(±0.05%), B(±0.1%), C(±0.25%),D(±0.5%), F(±1.0%)			
	TC-Range(10^{-6}/K)	E(±25), H(±50)			
Failure rate grade		M (Level five)			

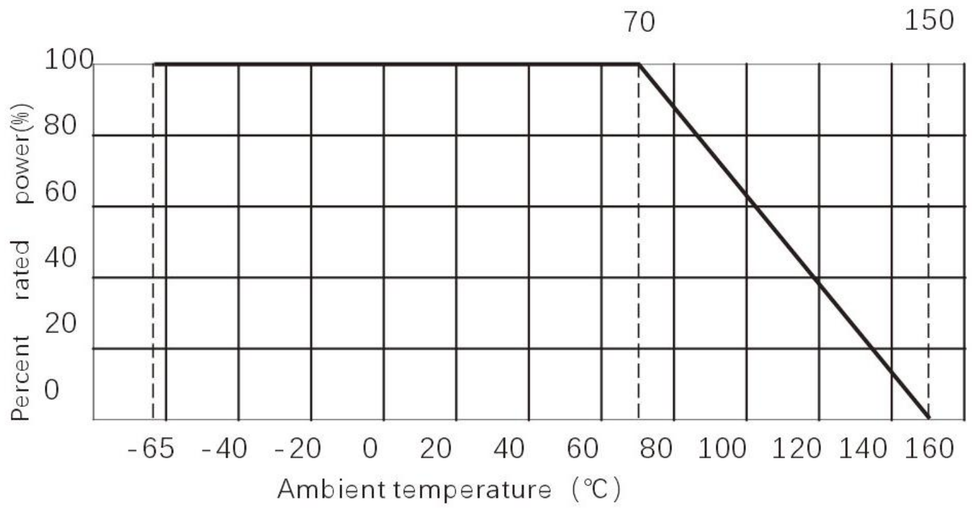
Http：//www.doublecircle.com TEL：+86-552-4910268 FAX：0552-4078882 E-mail:Shelley@doublecircle.com

Series RMK

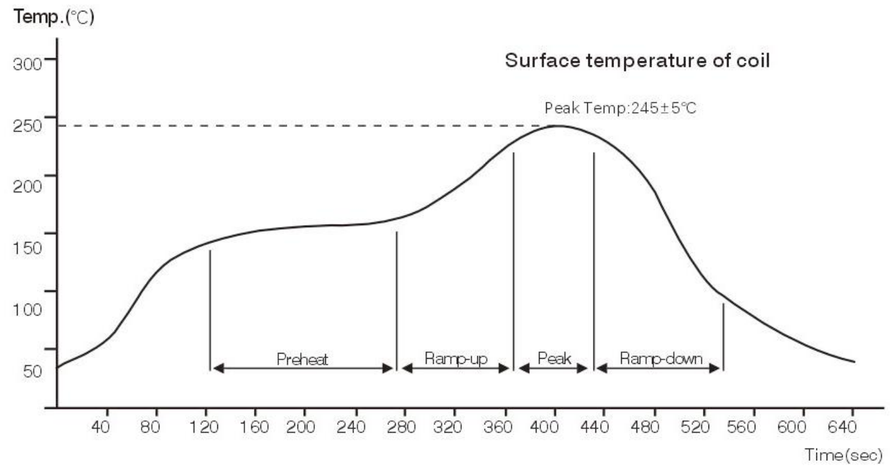
Thin film precision chip Resistors

DOUBLE CIRCLE
双 环

■ Derating Curve



■ Surface Mount Resistance Reflow Soldering Plot



■ Performance Characteristics

Test Items	E-Characteristic (±25ppm)	H-Characteristic (±50ppm)	Test Method
Short Time Overload	△R≤±(0.10%R+0.01Ω)	△R≤±(0.10%R+0.01Ω)	2.5 times of rated voltage, not more than 2 times of component limit voltage, lasting for 5S
Temperature Shock	△R≤±(0.10%R+0.01Ω)	△R≤±(0.25%R+0.01Ω)	-65℃ ~ 150℃,10 cycles,
Low Temp. Operation	△R≤±(0.10%R+0.01Ω)	△R≤±(0.25%R+0.01Ω)	-65℃,Rated load voltage 45min
Resistance to Dry Heat	△R≤±(0.10%R+0.01Ω)	△R≤±(0.20%R+0.01Ω)	Stored at 150 ℃ for 100h
Resistance to Solder	△R≤±(0.20%R+0.01Ω)	△R≤±(0.25%R+0.01Ω)	245℃±5℃,60±5S
Resistance to Moisture	△R≤±(0.20%R+0.01Ω)	△R≤±(0.40%R+0.01Ω)	-10℃ ~ 65℃,RH80-100%,240h
Load Life	△R≤±(0.50%R+0.01Ω)	△R≤±(0.50%R+0.01Ω)	70℃,Rated load,2000h

■ Examples for purchase

RMK2012	E	B	1002	B	M	T
Model	Characteristic	Lead-out terminal	Resistance value	Precision	Loss of efficiency rating	Packaging
RMK1608 RMK2012 RMK3216 RMK3225	E:±25X10^{-6}/K H:±50X10^{-6}/K		Refer to Page P122 of Nominal Series and Marking Method for details	F:±1.0% D:±0.5% C:±0.25% B:±0.1% W:±0.05%	Level five	T:Tape B:Bag

Packaging: Bulk in plastic bags.

Http：//www.doublecircle.com TEL：+86-552-4910268 FAX：0552-4078882 E-mail:Shelley@doublecircle.com