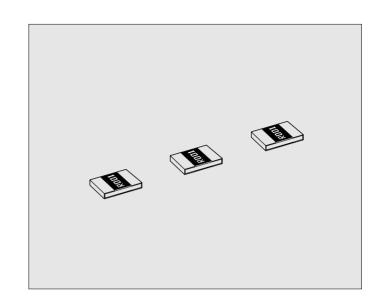


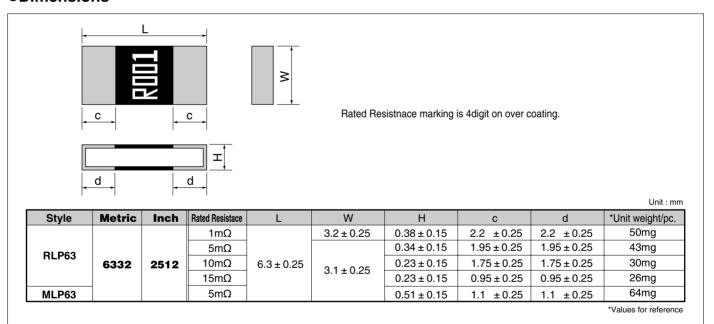
RLP,MLP

Features

- 1. New Lineup, $1m\Omega$, $5m\Omega$, $10m\Omega$, $15m\Omega$.
- 2. Suitable for current sensing of Battery pack.
- 3. Stability Class: 5%

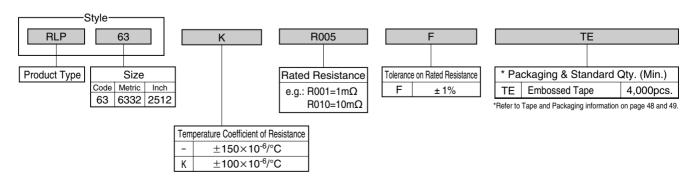


Dimensions



Part Number Description

Example



METAL-PLATE CHIP RESISTORS; LOW OHM

Ratings

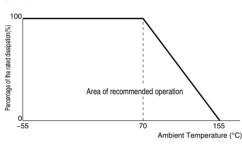
Otala	Size	Rated Dissipation	Rated Current	Combination of Rated Resistance Range and Temperature Coefficient of Resistance		Tolerance on	Isolation	Category Temperature
Style	Style Metric at 70°C Range R		Rated Resistance Range	Temperature Coefficient of Resistance 10 ⁻⁶ /°C	Rated Resistance	Voltage V	Range °C	
RLP63 6332 (2512)		2.0	44.7	1m	± 150			
		1.0	8.16,10,14.1	5m ,10m ,15m	±100 F(±1%)		100	−55 ~+155
MLP63	(== · =)	2.0	20	5m	±100			

Note1. Rated Current = $\sqrt{\text{(Rated Dissipation)/(Rated Resistance)}}$. Note2. Rated Voltage = $\sqrt{\text{(Rated Dissipation)} \times (\text{Rated Resistance)}}$. (d.c. or a.c. r.m.s. Voltage)

Note3. Please contact Kamaya Sales Dept. for any other resistance values.

Derating Curve

The derated values of dissipation for temperatures in excess of 70°C shall be indicated by the following Curve

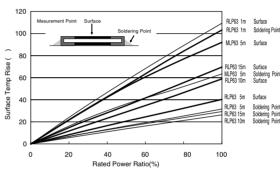


Climatic Category

55/155/56

Lower Category Temperature -55°C Upper Category Temperature +155°C +155°C Duration of the Damp heat, Steady-State Test 56 days

●Surface Temperature Rise (Reference)



*Because values are different, please contact Kamaya sales for the details about deployment condition and terms of use

Rated Resistance

Style	Resistance	Code	
RLP63	1m	R001	
RLP63 · MLP63	5m	R005	
RLP63	10m	R010	
nlr03	15m	R015	

Recommended land Pattern

x			
	Υ	A	Υ]
		В	<u> </u>

Style	Metric	Lnch	Rated Resistance	Α	В	X	Υ
			1m	2.0	7.6	3.5	2.8
			5m	2.4	7.6	3.5	2.6
RLP63	6332	2512	10m				
			15m	4.0	7.6	3.5	1.8
MLP63			5m				

*Values for reference

Unit : mm

●Performance Characteristics

Performance Characteristics Jis C 5201-1 : 1998						
Description	Requirements	Test Methods				
Voltage proof	No breakdown or flashover R≥1G ohm	Clause 4.7 100Va.c.,60s				
Variation of resistance with temperature	See Ratings Table	Clause 4.8 Measuring temperature: +20°C/+155°C/+20°C				
Overload	ΔR≤±1% No visible damage, legible marking	Clause 4.13 The applied voltage shall be 2.5 times of Rated Voltage, or equivalent current 2s.				
Solderability	In accordance with Clause 4.17.4.5	Clause 4.17 235°C, 2s				
Resistance to soldering heat	ΔR≤±1%	Clause 4.18 After immersion into the flux, the immersion into solder shall be carried out in Solder bath at 260°C for 5s.				
Rapid change of temperature	ΔR≤±1% No visible damage	Clause 4.19 5 cycles between -55°C and +155°C.				
Climatic sequence	ΔR≤±5% No visible damage	Clause 4.23 Dry/Damp heat(12+12h cycle), first cycle/Cold/Damp heat(12+12h cycle), remaining cycle./ D.C.Load.				
Damp test, steady state	ΔR≤±5% No visible damage, legible marking	Clause 4.24 40°C, 95%R.H., 56 days, test a) of Clause 4.24.2.1				
Endurance at 70°C	ΔR≤±5% No visible damage	Clause 4.25.1 Rated current, 1.5h "ON", 0.5h "OFF", 70°C, 1,000h.				
Endurance at the upper category temperature	ΔR≤±5% No visible damage	Clause 4.25.3 155°C, no-load, 1,000h.				
Adhesion	No visible damage	Clause 4.32 5N, 10s				
Bend strength of the face plating	ΔR≤±1%	Clause 4.33 Amount of bend : 1 mm				

Precautions of use

Resistance value will be changed by soldering condition.

Please design products in consideration of this change of resistance value.