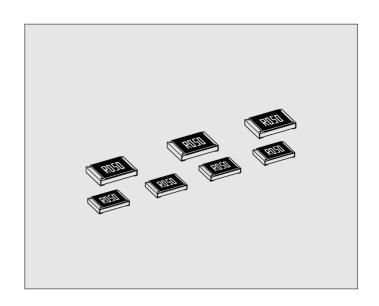
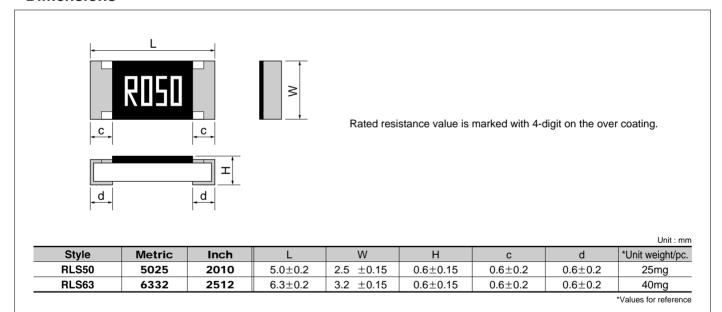
RLS

Features

- 1. Suitable for current detection of high-precision circuits (power supply, motor, etc.)
- 2. Stability Class: 5%

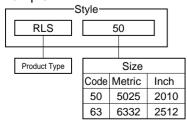


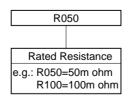
Dimensions

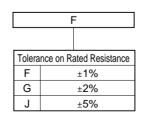


Part Number Description









TE						
* Packaging & Standard Qty. (Min.)						
В	Bulk (Loose Pa	1,000pcs.				
TE	Paper Tape	4,000pcs.				

*Refer to Tape and Packaging information on pages 46 and 47.

FIXED THICK FILM CHIP RESISTORS; RECTANGULAR TYPE & LOW OHM

Ratings

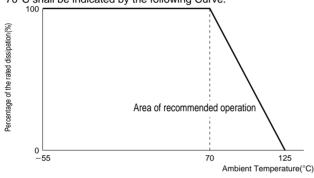
Size Rated Dissipation Rated Current			ed Resistance Range and efficient of Resistance	Tolerance on		Category Temperature		
Style	Metric (Inch)	at 70°C W	Range A	Rated Resistance Range	Temperature Coefficient of Resistance 10 ⁻⁶ /°C	Rated Resistance	Voltage V	Range °C
RLS50	5025 (2010)	0.75	1.93 ~6.12	20mΩ~ 33mΩ		F(±1%)	500	55 1405
RLS63	6332 (2512)	1.0	2.23~7.07	36 m Ω ~ 47 m Ω 50 m Ω ~200m Ω		G(±2%) J(±5%)	500	−55~+125

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

Derating Curve

The derated values of dissipation for temperatures in excess of

70°C shall be indicated by the following Curve.



●Climatic Category

55/125/56

-55°C Lower Category Temperature **Upper Category Temperature** +125°C Duration of the Damp heat, Steady-State Test 56 days

● Rated Resistance

Resistance	Code										
20mΩ	R020	33mΩ	R033	50mΩ	R050	68mΩ	R068	91mΩ	R091	160mΩ	R160
22mΩ	R022	36mΩ	R036	51mΩ	R051	70mΩ	R070	100mΩ	R100	180mΩ	R180
24mΩ	R024	39mΩ	R039	56mΩ	R056	75mΩ	R075	110mΩ	R110	200mΩ	R200
25mΩ	R025	40mΩ	R040	60mΩ	R060	80mΩ	R080	120mΩ	R120		
27mΩ	R027	43mΩ	R043	62mΩ	R062	82mΩ	R082	130mΩ	R130		
30mΩ	R030	47mΩ	R047	65mΩ	R065	90mΩ	R090	150mΩ	R150		

Note3. Other nominal resistance values are also available, please contact KAMAYA for further information.

●Performance Characteristics JIS C 5201-1: 1998

Description	Requirements	Test Methods		
Voltage proof	No breakdown or flashover R≥1G ohm	Clause 4.7 500Va.c.,60s		
Variation of resistance with temperature	See Ratings Table	Clause 4.8 Measuring temperature: +20°C/+125°C/+20°C		
Overload	ΔR≤±1% No visible damage, legible marking	Clause 4.13 The rated voltage×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 +125°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 4.25.3 125°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		