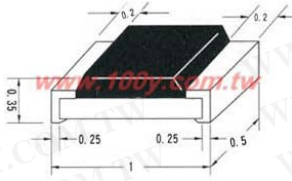


# Resistors & Potentiometers

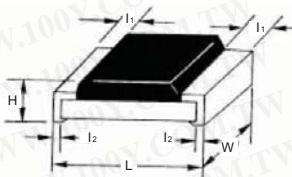
## 0402 Chip Resistors -(1/16W)

Detailed product specifications are available on: [us.100y.com.tw](http://us.100y.com.tw)



TEST ITEM	DESCRIPTION	TEST METHODS
Loading Life in Moisture	Temp: 40°C±2°C R.H:90~95% (WV) = √WR on-1.5hrs OFF+0.5hrs Continuors 1000hrs Requirement:±(3.0%±0.1Ω)Max	JIS C 5202.....clause 7.9
		Resistance change after 1000hours (1.5h "on"0.5h"off")at RCWV or max. less in a humidity chamber controlled at 40±2°C and 90%to95% relative humidity.
Load Life	Temp: 70°C±2°C (WV) = √WR Continuors 1000hrs ON-1.5hrs OFF-0.5hr Requirement:±(3.0%±0.1Ω)Max	JIS C 5202.....clause 7.10
		Resistance change after 1000hours operating at RCWV or msx. RCWV, which less with duty cycle of 1.5h "on"at 70±2°C ambient

Part No.	Product No.	Manufacturer	Description	Resistance data(Ω)	Tolerance(±)	Package
31392	0402-33Ω±1%	LIKET	0402 Chip Resistors-Thick Film	33 ohm	±1%	10,000pcs/R

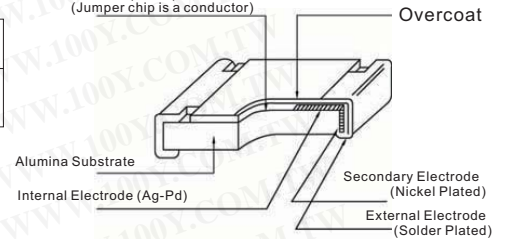


### DIMENSIONS

Unit : mm

STYLE	L	W	H	l1	l2
RC0402	1.00±0.05	0.50±0.05	0.35±0.05	0.20±0.10	0.25±0.10

Resistor (RuO2)  
(Jumper chip is a conductor)



### ELECTRICAL CHARACTERISTICS

STYLE	RC0402
Power Rating @ 70°C	1/16W
Operating Temp. Range	-25°C ~ +125°C
Maximum Working Voltage	50V
Maximum Overload Voltage	100V
Dielectric Withstand Voltage	100V
Resistance Range E24 Tol. ±2%, ±5% E96 Tol. ±0.5%, ±1% Zero Ohm Jumper	1Ω ~ 10MΩ 2.2Ω ~ 4.7MΩ
TCR ±200ppm/°C ±250ppm/°C ±300ppm/°C 0/+500ppm/°C	10Ω ≤ R < 10MΩ 1Ω ≤ R < 10Ω
Jumper Criteria Rated Current (A) Maximum Current (A)	1.0 2.0

### FEATURES

- Extremely Thin and Light
- Highly Reliable Multilayer Electrode Construction
- Compatible with all Soldering Process
- Highly Stable in Auto-Placement Surface Mounting Applications
- Barrier Layer End Termination
- Zero Ohm Jumper is Available
- Available in 8mm Tape & Reel per EIA Rs481



### ENVIRONMENTAL CHARACTERISTICS

PERFORMANCE TEST	TEST METHOD	1% TOL.	5% TOL.
Temperature Coefficient	MIL-STD-202F, Method 304 LCT to UCT	by Type	
Thermal Shock	MIL-STD-202F, Method 107G 25 Cycles, -65°C to +125°C (Step by Step 2 min.)	±(0.5%+0.05Ω)	±(1%+0.05Ω)
Low Temperature Operation	MIL-R-55342D, Para.4.7.4 One Hour at -65°C Followed by 45 Minutes RCWV	±(0.5%+0.05Ω)	±(1%+0.05Ω)
Short Time Overload	MIL-R-55342D, Para.4.7.5 2.5 Times RCWV for 5 Seconds	±(1%+0.05Ω)	±(2%+0.05Ω)
Insulation Resistance	JIS-C-5202, 5.6 RCOV for 1 Minute	>10GΩ	
Dielectric Withstand Voltage	JIS-C-5202, 5.7 R.M.S. for 1 Minute	by Type	
Resistance to Soldering Heat	MIL-STD-202F, Method 210C Soldered to Test Board at 260°C for 10 Seconds	±(0.5%+0.05Ω)	±(1%+0.05Ω)
Moisture Resistance	MIL-STD-202F, Method 106F 42 Cycles. Total 1000 Hours	±(0.5%+0.05Ω)	±(2%+0.05Ω)
Life	MIL-STD-202F, Method 108A 1000 Hours at 70°C RCWV Intermittent	±(1%+0.05Ω)	±(3%+0.05Ω)
Solderability	JIS-C-5202, 6.11 230°C for 5 Seconds	>95% Coverage	
Bending Strength	JIS-C-5202, 6.1.4 Unit Mounted in Center of 90mm Board Length, Deflected 5mm (power chip 2mm) in Either Direction for 5 Seconds	±(1%+0.05Ω)	±(1%+0.05Ω)

Part No.	Product No.	Manufacturer	Description	Resistance data(Ω)	Tolerance(±)	Package
25840	0402-33Ω±5%	YAGEO	0402 Chip Resistors-Thick Film	33 ohm	+/-5%	10,000pcs/R
18190	RC0402FR-070R	YAGEO	0402 Chip Resistors-Thick Film	0 ohm	+/-5%	10,000pcs/R
18324	RC0402FR-07100K	YAGEO	0402 Chip Resistors-Thick Film	100K ohm	+/-1%	10,000pcs/R
18209	RC0402FR-07100R	YAGEO	0402 Chip Resistors-Thick Film	100 ohm	+/-1%	10,000pcs/R
18296	RC0402FR-0710KL	YAGEO	0402 Chip Resistors-Thick Film	10K ohm	+/-1%	10,000pcs/R
18197	RC0402FR-0710R	YAGEO	0402 Chip Resistors-Thick Film	10ohm	+/-1%	10,000pcs/R
18059	RC0402FR-07110R	YAGEO	0402 Chip Resistors-Thick Film	110 ohm	+/-1%	10,000pcs/R
18246	RC0402FR-07120K	YAGEO	0402 Chip Resistors-Thick Film	120K ohm	+/-1%	10,000pcs/R
18211	RC0402FR-07120R	YAGEO	0402-120 ohm , +/-1% Resistor	120 ohm	+/-1%	10,000pcs/R
18300	RC0402FR-0712K	YAGEO	0402 Chip Resistors-Thick Film	12K ohm	+/-1%	10,000pcs/R
28548	RC0402FR-0712K1	YAGEO	0402 Chip Resistors-Thick Film	12.1K ohm	+/-1%	10,000pcs/R
28549	RC0402FR-0712K1	YAGEO	0402 Chip Resistors-Thick Film	12.1K ohm	+/-1%	10,000pcs/R



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