Specifications

Products Name	Low Resistance Chip Resistor	
Product Series	FLRV6432WCR***F	
Classification	Generic specification	



FLRV6432W Low Resistance Chip Resistor Specification

1. Application

This specification is applicable to FLRV6432W series for low resistance chip resistors.

(6)

2. Part numbering system

FLR V6432 W <u>C</u> R*** <u>F</u>

(1) (3) (4) (5) (2)

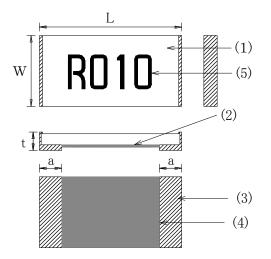
- (1) Product series
- (2) Size
- (3) Side-electrode type
- (4) Characteristic type
- (5) Nominal Resistance
- (6) Resistance tolerance

Foil Low Resistance Short-side electrode 6.4*3.2mm size Wrap around High operating temperature type (example) $100m\Omega \rightarrow R100$ F (±1.0%) G(±2.0%) J(±5.0%)

3. Structure

Ceramic substrate is adhered to metal foil resistive element. Terminals are formed on top of the foil.

4. Dimensions



- : Alumina (1) Substrate
- (2) Resistive element : Ni-Cu alloy
- (3) Terminal : Plated Ni/Sn over Cu
- (4) Protective coating : Epoxy (green) : Epoxy (black)

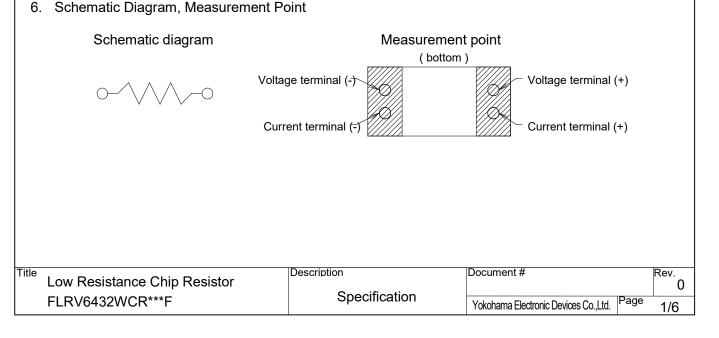
(5) Marking

Symbol	Dimensions (mm)		
Symbol	~4m ohm	5∼8m ohm	9m ohm∼
L	6.3±0.2	6.3±0.2	6.3±0.2
W	3.1±0.2	3.1±0.2	3.1±0.2
а	2.5±0.2	1.9±0.2	1.0±0.2
t	0.5±0.2	0.5±0.2	0.5±0.2

5. Marking

Resistance value code is marked on the top surface.

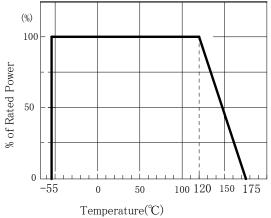
Example) $100m\Omega \rightarrow R100$



7. Specification

Specification		
Parameter	Specification	
Resistance Value	3 to $680m\Omega$ (possible state of Value)	
Resistance Tolerance	±1.0% (F), ±2.0% (G), ±5.0% (J)	
Temperature Coefficient of Resistance	±50ppm/°C	
Power Rating	2W (Derating Curve····Figure-1)	
Maximum Over Current	Which smaller between: $I = \sqrt{(36/R)}$ [A] Power: 36(W) R: Resistance(Ω) I=70A (10m sec. max.) Interval 60 sec. Minimum. 10times.	
Operating Temperature Range	-55 ~ +175°C	
Rated Ambient Temperature	+120°C	

Figure-1 Derating curve



8. Performance

. Fenomance			
Test Item	Test Conditions	Test Conditions	
Short Time Over Load	5 1	Voltage of 1.5 times the rated power shall be applied for 5s.	
Load life	Rated power on for 90 min, off for 30 min 1000h.	Rated power on for 90 min, off for 30 min at 70±3°C for 1000h.	
Moisture Load life	Rated power for 90 min, off for 30 min at 60 humidity of 90% for 1000h.	Rated power for 90 min, off for 30 min at 60±2°C, relative humidity of 90% for 1000h.	
Temperatu	re [-55°C 30 min \rightarrow R.T. 3min \rightarrow +155°C 30	±1.0%	±1.0%
Cycle	min \rightarrow R.T. 3min]	±2.0%	±2.0%
Resistance soldering he		260±5°C solder, 10±1sec dip	
Board Bend	Test board length: 90mm Bend depth: 2mm Test board: Glass-Epoxy t=1.6mm		±1.0%
Solderabili	245±5°C solder, 3+1/-0 sec dip.		90% terminal surface coverage by fresh solder

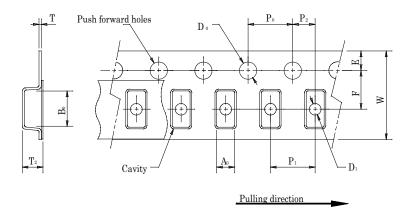
9. Packaging

Packing quantity	5,000 pieces	/reel
Taping form	-	Figure-2
Peeling strength of seal tape		Figure-3
Reel form		Figure-4
Taping direction		Figure-5

Label contents: The following items shall be printed on the reel label. (Figure-6)

Part number
Quantity for each reel
Manufacturing month code
Manufacturer
Inspection number (Lot number)
The country of origin
Double dashed line which shows lead free

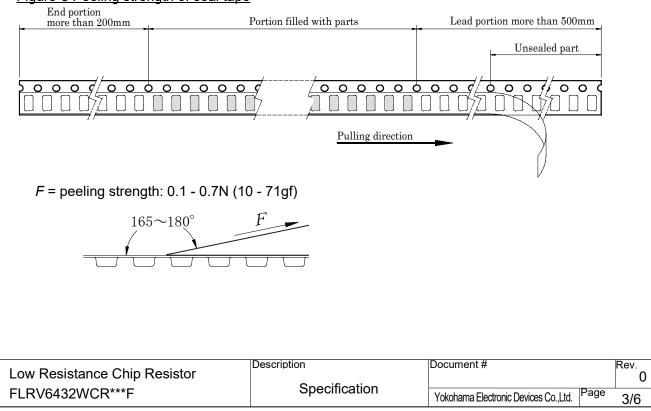
Figure-2 Plastic Tape ··· Taping form

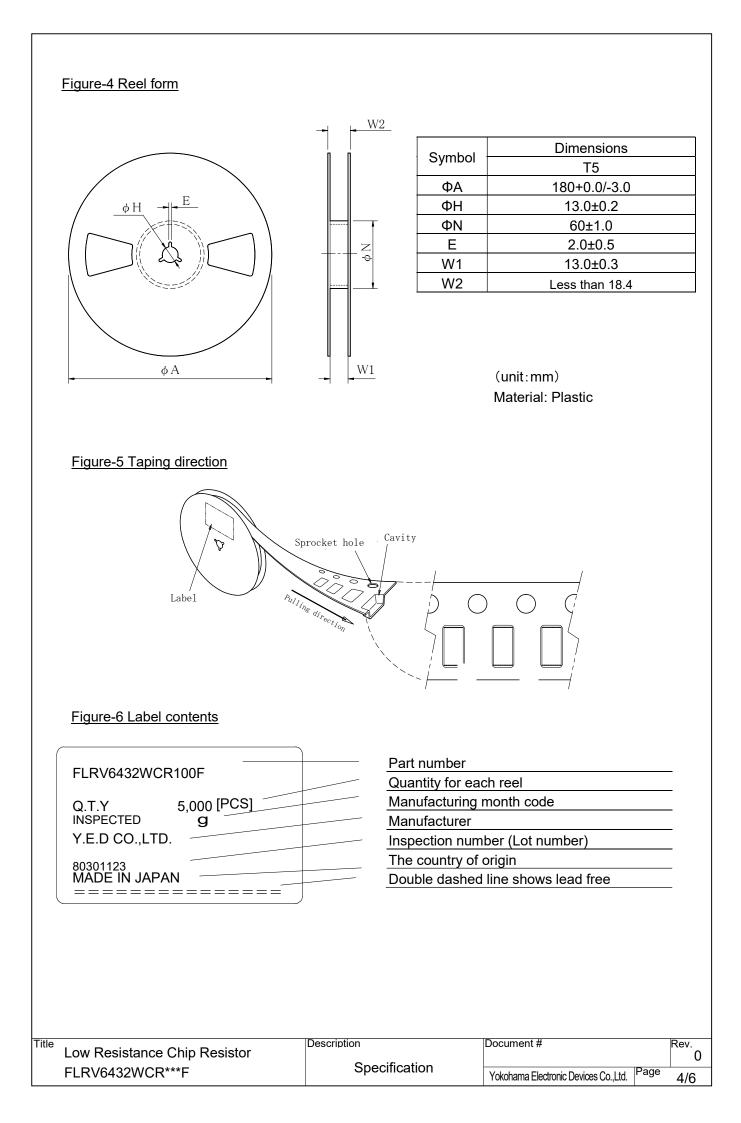


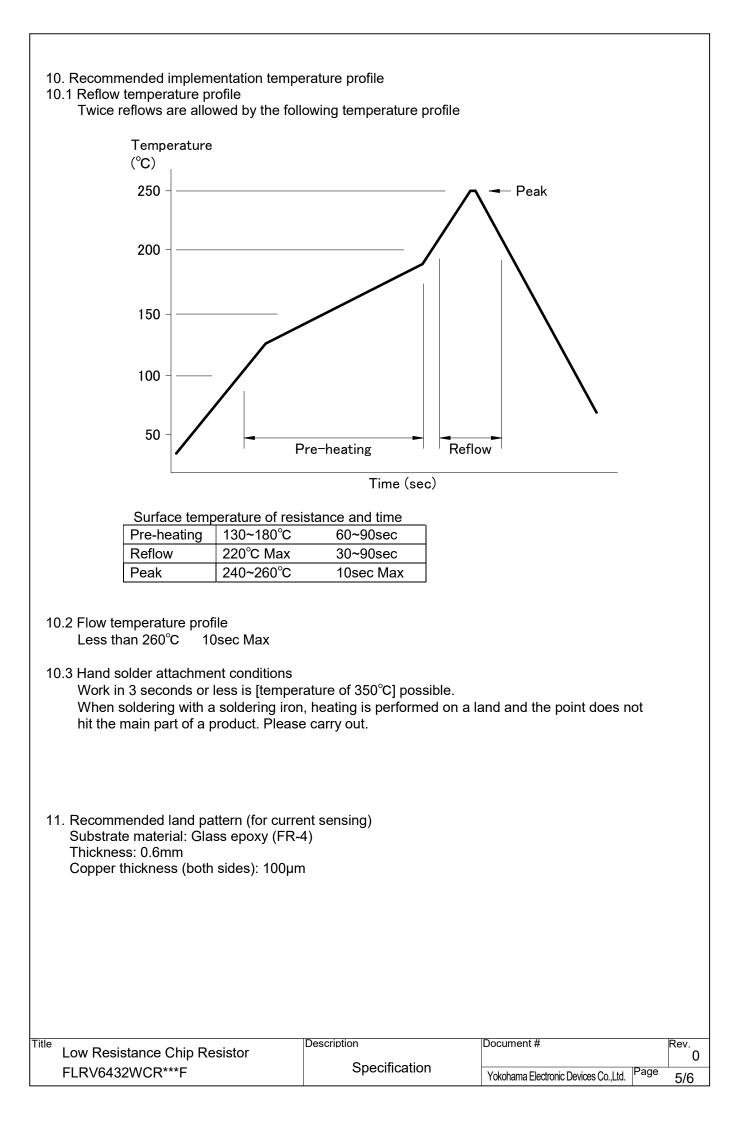
Symbol	Dimensions (mm)
A ₀	3.43 ±0.2
B ₀	6.63 ±0.2
W	12.0 ±0.3
F	5.50 ±0.05
E	1.75 ±0.1
P ₀	4.00 ±0.1
P ₁	4.00 ±0.1
P ₂	2.00 ±0.05
D ₀	1.50 +0.1/-0
D ₁	1.50 +0.2/-0
Т	0.20 ±0.05
T ₂	0.76 ±0.1

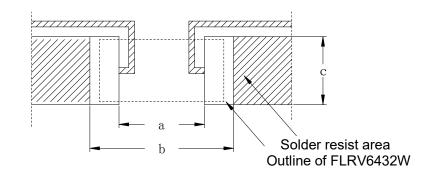
Figure-3 Peeling strength of seal tape

Title









	Dimensions (mm)		
Resistance	а	b	с
~4mΩ	1.20	7.40	3.50
5 to 8mΩ	2.50	7.40	3.50
9mΩ~	4.40	7.40	3.50

12. Storage note

- (1) To maintain good solderability, Store the components in the temperature and humidity controlled room. Temperature: 5~35°C Humidity: 45~85% RH
- (2) Store the components at the place avoiding moisture, dust and corrosive harmful gas (hydrogen chloride, sulfurous acid gas and hydrogen sulfide) that may cause the decrease in solderability.
- (3) Store the components at the place avoiding direct sunlight.