imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Fixed Thick Film Low Ohmic Chip Resistors For Current Detection

UCR18 (3216(1206) size : 1 / 2W)

Features

1) Chip resistors ideal for current detection. ($11m\Omega$ to $100m\Omega$)

2) Unique chip and terminal configuration reduces resistance shifting during the mounting process.

3) Superior rated power.

4) ROHM resistors have approved ISO9001- / ISO/TS 16949- certification

Ratings

Design and specifications are subject to change without notice. Carefully check the specification sheet before using or ordering it.

Item	Conditions	Specifications
Rated power	Power must be derated according to the power derating curve in Figure 1 when ambient temperature exceeds 70°C.	0.5W (1 / 2W) at 70°C
Rated voltage	The voltage rating is calculated by the following equation. $E = \sqrt{P \times R} \qquad \begin{array}{c} E: \text{ Rated voltage (V)} \\ P: \text{ Rated power (W)} \\ R: \text{ Nominal resistance } (\Omega) \end{array}$	
Nominal resistance	See Table 1.	
Operating temperature		–55°C to + 155°C

Table 1

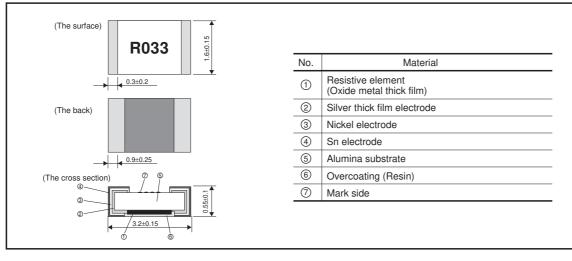
Resistance range (Ω)	Resistance tolerance	Special specification	Resistance temperature coefficient (ppm/°C)
0.011 to 0.018 (E24)			0 to 350
0.020 to 0.039 (E24)	F (±1%)	S	0 to 200
0.043 to 0.091 (E24)	J (±5%)		0 to 150
0.1		L	0 to 150

•Before using components in circuits where they will be exposed to transients such as pulse loads (short–duration, high–level loads), be certain to evaluate the component in the mounted state. In addition, the reliability and performance of this component cannot be guaranteed if it is used with a steady state voltage that is greater than its rated voltage.

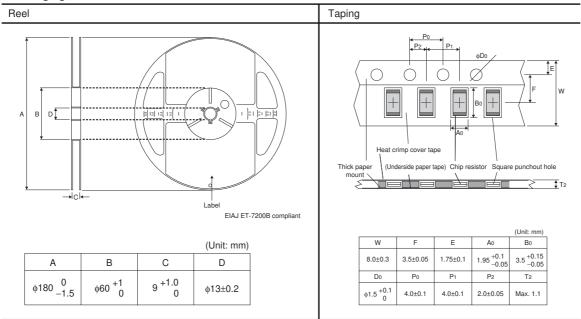
Characteristics

Item	Guaranteed value	Test conditions (JIS C 5201-1)
liem	Resistor type	
Resistance	F : ±1% J : ±5%	JIS C 5201-1 4.5 Measuring method : Measure under termination Under termination
Variation of resistance with temperature	See Table.1	JIS C 5201-1 4.8 Measurement : -55 / +25 / +125°C
Overload	± (2.0%+0.005Ω)	JIS C 5201-1 4.13 Rated voltage (current) × 2.5, 2s.
Solderability	A new uniform coating of minimum of 95% of the surface being immersed and no soldering damage.	JIS C 5201-1 4.17 Rosin-Ethanol (25%WT) Soldering condition : 235±5°C Duration of immersion : 2.0±0.5s.
Resistance to soldering heat	$\pm (1.0\% {+} 0.005 \Omega)$ No remarkable abnormality on the appearance.	JIS C 5201-1 4.18 Soldering condition : 260±5°C Duration of immersion : 10±1s.
Rapid change of temperature	± (1.0%+0.005Ω)	JIS C 5201-1 4.19 Test temp. : -55°C to +125°C 5cyc
Damp heat, steady state	± (3.0%+0.005Ω)	JIS C 5201-1 4.24 40°C, 93%RH Test time : 56 days
Endurance at 70°C	rance at 70°C ± (3.0%+0.005Ω) JIS C 5201-1 4.25.1 Rated voltage (curre 1.5h : ON – 0.5h : OI Test time : 1,000h	
Endurance	\pm (3.0%+0.005 Ω)	JIS C 5201-1 4.25.3 155°C Test time : 1,000h to 1,048h
Resistance to solvent	t (0.5%+0.005Ω) JIS C 5201-1 4.29 23±5°C Solvent : 2-propanol	
Bend strength of the end face plating	Without open.	JIS C 5201-1 4.33

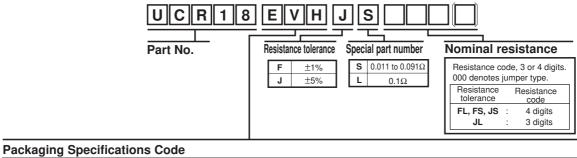
•Dimensions (Unit : mm)



Packaging



Part No. Explanation



Part No. Code J(±5%) F(±1%) Packaging specifications	Reel Basic ordering unit(pcs
J(±J/o) F(±1/o)	
UCR18 EVH O O Paper tape (4mm Pitch) 018	30mm (7in.) 5,000

Reel (\\$180mm) : Compatible with JEITA standard "EIAJ ET-7200B"

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