

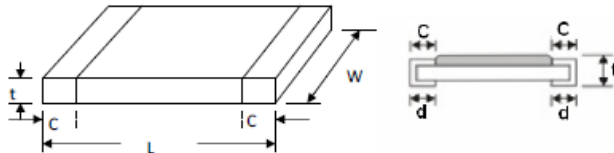
HIGH VOLTAGE CHIP RESISTOR

RCH TYPE

FEATURES

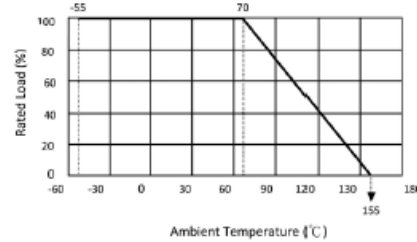
- Highly reliable multilayer electrode construction
- Higher component and equipment reliability
- Excellent performance at high voltage
- Reduce the size of final equipment

DIMENSIONS



POWER RATING CURVE

- For resistors operate in ambient temperatures above 70°C, power rating must be derated in accordance with the curve below :



Unit : mm

TYPE	L	W	t	C	d
RCH0402	1.00±0.05	0.50±0.05	0.35±0.05	0.20±0.10	0.20±0.10
RCH0603	1.60±0.10	0.80±0.10	0.45±0.10	0.30±0.20	0.30±0.20
RCH0805	2.00±0.10	1.25±0.10	0.50±0.10	0.35±0.20	0.40±0.20
RCH1206	3.10±0.10	1.55±0.10	0.55±0.10	0.50±0.25	0.50±0.20
RCH2010	5.00±0.10	2.50±0.15	0.55±0.10	0.60±0.25	0.50±0.20
RCH2512	6.35±0.10	3.10±0.15	0.55±0.10	0.60±0.25	0.50±0.20

RATINGS

TYPE	RCH0402	RCH0603	RCH0805	RCH1206	RCH2010	RCH2512
POWER	1/16W	1/10W	1/8W	1/4W	1/2W	1W
MAX. WORKING VOLTAGE	100V	200V	400V	500V	2000V	3000V
MAX. OVERLOAD VOLTAGE	200V	400V	800V	1000V	3000V	4000V
OPERATING TEMP. RANGE	-55°C ~ +155°C					
RESISTANCE RANGE	±5% & ±1%		10Ω - 1M			
	SPECIAL	±5%	1M1 - 100M			
		±1%	1M02 - 10M		1M02 - 20M	

CHARACTERISTICS

ITEM	LIMITS		TEST METHOD
	±1%	±5%	
TEMPERATURE COEFFICIENT OF RESISTANCE (T.C.R.)	100PPM	200PPM 400PPM : 22M - 100M	JIS C 5201-1 4.8 ; IEC 60115-1 4.8 -55°C ~ +125°C, 25°C is the reference temperature
SHORT TIME OVERLOAD	±(1.0%+0.05Ω)	±(2.0%+0.05Ω)	JIS C 5201-1 4.13 ; IEC 60115-1 4.13 2.5 times RCWV or Max. overload voltage for 5 seconds
INSULATION RESISTANCE	≥ 10G		JIS C 5201-1 4.6 ; IEC 60115-1 4.6 Max. overload voltage for 1 minute
ENDURANCE	±(2.0%+0.10Ω)	±(3.0%+0.10Ω)	JIS C 5201-1 4.25 ; IEC 60115-1 4.25.1 70±2°C, Max. working voltage for 1000 hrs with 1.5 hrs "ON" and 0.5 hrs "OFF"
DAMP HEAT WITH LOAD	±(2.0%+0.10Ω)	±(3.0%+0.10Ω)	JIS C 5201-1 4.24 40±2°C, 90~95% R.H., Max. working voltage for 1000 hrs with 1.5 hrs "ON" and 0.5 hrs "OFF"
BENDING STRENGTH	±(1.0%+0.05Ω)	±(1.0%+0.05Ω)	JIS C 5201-1 4.33 ; IEC 60115-1 4.33 Bending once for 5 seconds with 3mm, 2010 & 2512 sizes : 2 mm
SOLDERABILITY	>95% coverage		JIS C 5201-1 4.17 ; IEC 60115-1 4.17 245±5°C for 3 seconds
RESISTANCE TO SOLDERING HEAT	±(0.5%+0.05Ω)	±(1.0%+0.05Ω)	JIS C 5201-1 4.18 ; IEC 60115-1 4.18 260±5°C for 10 seconds
LEACHING	Individual leaching area ≤ 5% Total leaching area ≤ 10%		JIS C 5201-1 4.18 ; IEC 60068-2-58 8.2.1 260±5°C for 30 seconds

* Temperature : 25±3°C ; Humidity <80% RH