

# Precision – High Value Chip Resistors

**Features** Precision high value chip resistors offer extremely high resistance – up to 1 Giga Ohm, with low TCR. They exhibit excellent long term stability and can be used in high voltage applications.

## Specifications



**DERATING CURVE**



Series	TCR	Maximum Temperature Coefficient (PPM)	Range of Resistance Values		Rated Power (W)	Maximum Working Voltage DC (KV)	Voltage Coefficient (PPM/V)	Dimensions (mm)					Available Resistance Tolerance (%)
			(MΩ) Min.	(MΩ) Max.				L	W	T	l1	l2	
PHCR 2512	E	± 25	0.5	30	0.5	1.5	< 20	6.4 ±0.2	3.2 ±0.2	0.5 ±0.1	0.5 ±0.3	0.5 ±0.3	For values ≤100MΩ B±0.1 C±0.25 D±0.5 F±1 G±2 J±5 K±10
	C	± 50	0.5	30									
	K	± 100	0.5	1000									
PHCR 5020	E	± 25	1	30	1.0	2.5	< 5	12.8 ±0.2	5.0 ±0.2	0.8 ±0.1	1.0 ±0.1	2.0 ±0.2	For values ≤1GΩ F±1 G±2 J±5 K±10
	C	± 50	1	30									
	K	± 100	1	1000									
PHCR 7020	K	± 100	1	1000	1.5	3.5	< 2	18.0 ±0.2	5.0 ±0.2	0.8 ±0.1	1.0 ±0.1	2.0 ±0.2	For values ≤1GΩ F±1 G±2 J±5 K±10
PHCR 10020	K	± 100	1	1000	2.0	5.0	< 1	25.5 ±0.2	5.0 ±0.2	0.8 ±0.1	1.0 ±0.1	2.0 ±0.2	For values ≤1GΩ F±1 G±2 J±5 K±10

\*Consult your sales representative for the resistors with resistance values which are outside the range specified above and with resistance tolerance between 0.1% and 0.25%.

All components in this section are RoHS compliant per the EU directives and definitions.

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## Characteristics

Item	Characteristics	Test Method
Operating Temperature Range	-55°C ~ + 150°C	
Temperature Coefficient	±25, ±50, ±100PPM/°C	Measured at 25°C and 125°C
Long-term Stability	± 0.1%	At normal temperature and humidity for 10,000 hr.
Moisture Resistance	± 0.1%	40°C 90 ~ 95% R.H. 1000 hr.
Heat Cycle	± 0.1%	-55°C ~ + 150°C 5 cycles
Resistance to Soldering Heat	± 0.1%	260°C ± 5°C 10 sec.

## How To Order

