

チップ固定抵抗器

Chip Resistors

ECU

- 高電力（長辺電極タイプ）チップ固定抵抗器
High power (Wide terminal type) chip resistors
- 耐サージ高電力チップ固定抵抗器
Surge current high power chip resistors
- 耐硫化チップ固定抵抗器
Sulfurization-proof chip resistors

Head light

- 電流検出用金属板抵抗器
Current detecting metal plate resistors

Antenna Circuit

- ESDプロテクタ
ESD Protectors

Battery

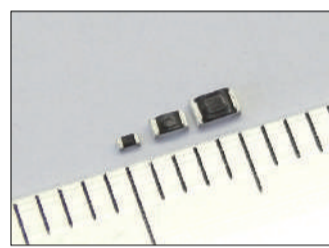
- 電流検出用金属板抵抗器
Current detecting metal plate resistors
- 耐アーク性チップヒューズ
Arc resistant Chip Fuse



ESDプロテクタ ESD Protectors

- 表面実装可能な静電気保護用の部品です。
Surface-mountable parts for ESD protection.
- 静電気印加時にピーク電圧を抑制し、回路を保護します。
When ESD is applied, this product exhibits excellent suppression of peak voltage and protects circuits.

Model No. EPP



Specifications

Model No.	Size L×W×t (mm)	Peak Voltage (V)*	Peak Current (A)	Rated Voltage (V)
EPP10	1.0×0.5×0.40	600 or less (900 or less)	20 or more	15
EPP16	1.6×0.8×0.55	700 or less (900 or less)	20 or more	20
EPP20	2.0×1.25×0.55	900 or less	20 or more	25

* () 内は2回目印加以降 ※ () is when it is applied two times or more.

NEW

耐アーク性チップヒューズ Arc Resistant Chip Fuses

- 本製品は小型でありながら世界最高水準の定格電圧を実現し（従来比2倍以上）、高電圧が加わる車載向け電池監視用ユニットの回路保護に最適です。
Despite its small size, it achieves the world's highest rated voltage (more than twice that of conventional products), making it ideal for circuit protection of in-vehicle battery monitoring units that are exposed to high voltage.

- 弊社独自の構造による速断型チップヒューズです。
Quick acting type chip fuse by HDK's original structure.
- 弊社独自の製法により定格電圧 DC75V を実現。
Achieves rated voltage DC 75 V by our original manufacturing method.
- 優れた耐アーク特性により、溶断時の発煙・発火の危険性が極めて低いチップヒューズです。
This chip fuse has extremely low risk of smoke and ignition when fused, thanks to its excellent arc resistance.

Model No. AFCL16-132



Specifications

Model No.	Size L×W×t (mm)	Rated Current (A)	Rated Voltage (VDC)	Breaking Current (A)
AFCL16-132	1.6×0.8×0.5	1.25	75	50

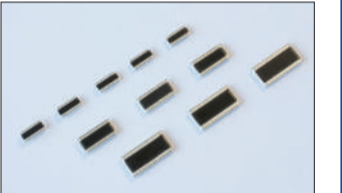
Operating Temperature Range: -55°C ~ +125°C
Fusing performance: To be fused within 5 seconds when 200% of the rated current is applied.

高電力（長辺電極タイプ）チップ固定抵抗器 High Power (Wide Terminal Type) Chip Resistors

- 長辺電極構造により、高電力対応が可能です。（同サイズと比較し、1～2ランクアップが可能）
Due to wide terminal, high power handling is possible. (Compared to ordinary types of the same size, a higher rank of 1~2 is possible)

- 面実装タイプで、定格電力3W、5W 高電力対応品です（WCR110/160）。●欧州 RoHS 対応品です。
Surface mount type, 3W, 5W rated of high power type (WCR110/160). Europe RoHS compliant products
- 抵抗値範囲 1Ω ~ 1MΩまで広い抵抗値範囲をカバーしております。●耐硫化も対応可能です。
Wide range of 1Ω ~ 1MΩ is covered. Sulfurization-proof types are available.

Model No. WCR



Specifications

Model No.	Size L×W×t (mm)	Rated Power (W)	Resistance (Ω)	Max. Working Voltage (V)	Max. Overload Voltage (V)
WCR32	1.6×3.2×0.55	0.75	1 ~ 1M	200	400
WCR50	2.5×5.0×0.56	1.0	1 ~ 1M		
WCR64	3.2×6.3×0.56	2.0	1 ~ 1M		

*太字枠の仕様は、WCR32, WCR50, WCR64共通。*The specifications within the bold frame are common to WCR32, WCR50 and WCR64.

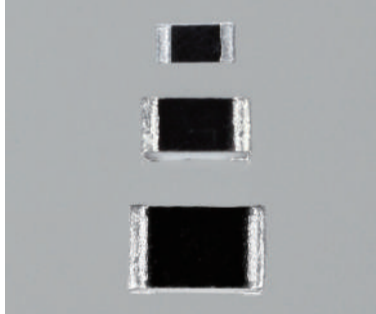
High Wattage Type

Model No.	Size L×W×t (mm)	Rated Power (W)	Resistance (Ω)	Max. Working Voltage (V)	Max. Overload Voltage (V)
WCR110	5.0×11.0×0.56	3.0	1 ~ 1M	200	400
WCR160	8.0×16.0×0.56	5.0	1 ~ 1M	250	500

耐サージ高電力チップ固定抵抗器 Surge Current High Power Chip Resistors

- 弊社独自の素材、構造によるサージ耐圧、耐パルス性に優れたチップ抵抗器です。
Chip resistors with excellent surge resistance and pulse resistance due to our unique materials and structure.
- 業界最高の定格保証が可能です。
1608 サイズで 0.3W (3225 サイズ相当) を保証します。
Industry highest rating guarantee is possible.
0.3 W (3225 size equivalent) is guaranteed with 1608 size.

Model No. PCR



Specifications

Model No.	Size L×W×t (mm)	Rated Power (W)	Resistance (Ω)	Max. Working Voltage (V)	Max. Overload Voltage (V)
PCR10	1.0×0.5×0.35	0.20	10 ~ 1M	50	100
PCR16	1.6×0.8×0.5	0.30	10 ~ 1M	150	200
PCR20	2.0×1.25×0.5	0.50	10 ~ 1M	150	200

Operating Temperature Range: -55 ~ 155°C

耐硫化チップ固定抵抗器 Sulfurization-proof Chip Resistors

- 特殊な材料を使用することで、耐硫化特性が優れています。
Use of special material provides excellent anti-sulfurization characteristic.
- 汎用品に対し、20倍以上の耐久性があります。（GRES）
Compared to normal type, 20 times or more of durability has been achieved. (GRES)

Model No. GRES, CRS

Specifications

Model No.	Size L×W×T (mm)	Rated Power (W)	Resistance (Ω)	Max. Working Voltage (V)	Max. Overload Voltage (V)
GRES06	0.6×0.3×0.23	0.050	10~1M	25	50
CRS10	1.0×0.5×0.35	0.100*	10~1M	50	100
CRS16	1.6×0.8×0.50	0.125	10~1M	50	100
CRS20	2.0×1.25×0.50	0.250*	10~1M	150	200
CRS32	3.2×1.6×0.56	0.250	10~1M	200	400
CRS35	3.2×2.6×0.56	0.500	10~1M	200	400
CRS50	5.0×2.5×0.56	0.750	10~1M	200	400
CRS64	6.3×3.2×0.56	1.000	10~1M	200	400

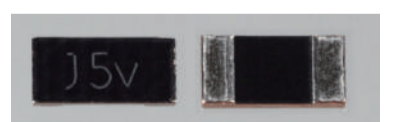
*短時間過負荷試験条件:
定格電圧×2.5倍を5秒印加
⇒定格電圧×1.5倍を5秒印加、
となります。
*Short-time overload test condition:
Voltage equal to 2.5 times the rated voltage
is applied for 5 seconds.
⇒ Voltage equal to 1.5 times the rated voltage
is applied for 5 seconds.

Operating Temperature Range: -55 ~ 155°C

電流検出用金属板抵抗器 Current Detecting Metal Plate Resistors

- 抵抗体に金属板を使用しているため、電気的特性に優れています。
Superior electrical characteristics by metal plate resistor body.
- 大電流の検出に適しています。
Suitable for large current detection.

Model No. LP32



Specifications

Model No.	Size L×W×t Max. (mm)	Rated Power (W)	Resistance (mΩ)	Tolerance (%)	T.C.R. (ppm/°C)
LP20	2.0×1.25×0.4 Max.	0.5	1.5, 2.0, 3.0	F(±1%)	±150
LP32L	3.2×1.6×0.6 Max.	1.0	2	J(±5%)	±150
			3~5		
LP62 (LPZ)	6.2×3.1×1.2 Max.	1.0	3~4	F(±1%)	±300
			5~9	G(±2%)	±180
			10~100	F(±1%)	±100

抵抗値によって端子寸法は異なりますので、お問い合わせください。
Since terminal dimensions differ depending on resistance, please inquire us.