

高機能チップ固定抵抗器

High Function Chip Resistors

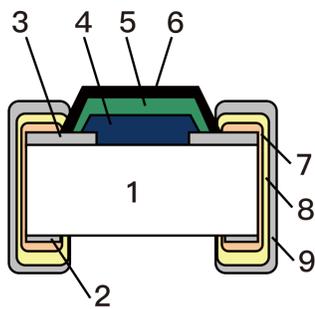
NEW 高精度チップ固定抵抗器 High Precision Chip Resistors

Model No. HMCR

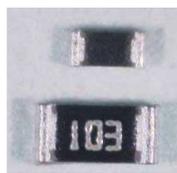
◆ 弊社独自の構造により、厚膜で高精度を実現したチップ抵抗器です。
Thick film and high precision chip resistors achieved through our unique structure.

◆ 抵抗値許容差 ±0.1%、T.C.R. 50 ppm/°C保証します。
Resistance tolerance ±0.1% and T.C.R. 50 ppm/°C are guaranteed.

Construction



No.	Element Name
1	Ceramic Substrate
2	Back side electrode
3	Top Electrode
4	Resistor element
5	Protective coating (I)
6	Protective coating (II)
8	Side Electrode
9	Ni Plating
10	Sn Plating



Specifications

Model No.	Size L×W×t (mm)	Rated Power (W)	Tolerance (%)	Resistance (Ω)	T.C.R. (ppm/°C)	Max. Working Voltage (V)	Max. Overload Voltage (V)
HMCR10	1.0×0.5×0.35	0.063	B(±0.10%) C(±0.25%)	100~1M	±50	50	100
HMCR16	1.6×0.8×0.5	0.100		1k~100k	±50	50	100

耐サージチップ高電力固定抵抗器 Surge Current Type high Power Chip Resistors

Model No. PCR, SPCR

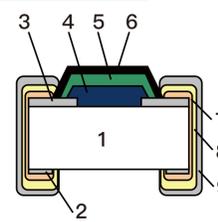
◆ 弊社独自の素材、構造により、サージ耐圧、耐パルス性に優れた高電力チップ抵抗器です。

This is high power chip resistors with excellent surge and pulse resistance due to our unique materials and structure.

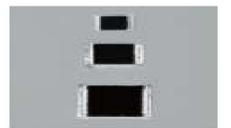
◆ 搭載部品の集約による管理工数削減や、ダウンサイズによるVA(部品コストの削減、実装面積の削減)が可能です。

It can reduce the workload by aggregating mounted parts, as well as reducing the cost of parts and the space required for mounting due to downsizing.

Construction



No.	Element Name
1	Ceramic Substrate
2	Back side electrode
3	Top Electrode
4	Resistor element
5	Protective coating (I)
6	Protective coating (II)
8	Side Electrode
9	Ni Plating
10	Sn Plating



Specifications

Model No.	Size L×W×t (mm)	Rated Power (W)	Tolerance (%)	Resistance (Ω)	T.C.R. (ppm/°C)	Max. Working Voltage (V)	Max. Overload Voltage (V)
NEW PCR10	1.0×0.5×0.35	0.20	J(±5.0%) F(±1.0%) D(±0.5%)	10~1M	±200 ±100	50	100
PCR16	1.6×0.8×0.5	0.30	J(±5.0%) F(±1.0%) D(±0.5%)	10~1M	±200 ±100	150	200
NEW PCR20	2.0×1.25×0.5	0.50	J(±5.0%) F(±1.0%) D(±0.5%)	10~1M	±200 ±100	150	200
NEW SPCR20	2.0×1.25×0.5	0.60	J(±5.0%) F(±1.0%) D(±0.5%)	10~1M	±200 ±100	200	400
NEW PCR32	3.2×1.6×0.55	0.75	J(±5.0%) F(±1.0%) D(±0.5%)	10~1M	±200 ±100	200	400

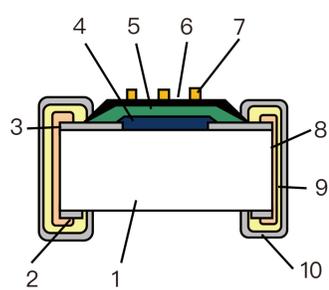
耐硫化型チップ固定抵抗器 Sulfurization-proof Chip Resistors

Model No. CRES

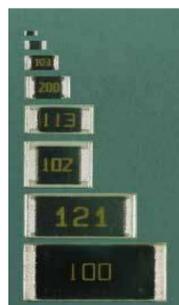
◆ 特殊な表面電極材料を使用することで耐硫化特性が優れております。
Use of special material for top electrode provides excellent sulfurization characteristic.

◆ 汎用品に対し、80倍以上の耐性がございませう。
Compared to normal type, 80 times or more of durability was achieved

Construction



Model No.	Element Name
1	Ceramic substrate
2	Back side electrode
3	Special electrode
4	Resistor element
5	Protective coating (I)
6	Protective coating (II)
7	No marking Digit or dot marking
8	Side Electrode
9	Ni Plating
10	Sn Plating



Specifications

Model No.	Size L×W×t (mm)	Rated Power (W)	Tolerance (%)	Resistance (Ω)	T.C.R. (ppm/°C)	Max. Working Voltage (V)	Max. Overload Voltage (V)
CRES06	0.8×0.3×0.23	0.050	F(±1%) G(±2%) J(±5%)	10~1M	±250	25	50
NEW CRES10	1.0×0.5×0.35	0.100				50	100
NEW CRES16	1.6×0.8×0.5	0.120				150	200
NEW CRES20	2.0×1.25×0.5	0.250				150	200
CRES32	3.2×1.6×0.56	0.250				200	400
NEW CRES35	3.2×2.5×0.56	0.500				200	400
NEW CRES50	5.0×2.5×0.56	0.750	G(±2%) J(±5%)	10~1M	±300	200	400
CRES64	6.4×3.2×0.56	1.000				200	400

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

Model No. WCR, WPCR, WSPCR

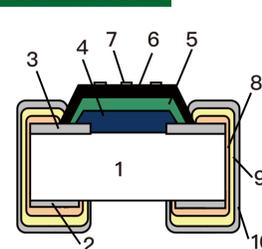
◆ 長辺電極構造により、高電力対応が可能です。

The long side electrode materializes the high power handling capability.

◆ 長辺電極構造により、はんだ接合に対して高信頼性を有しております。

Due to wide side terminal structure, the solder joints hold high reliability.

Construction



No.	Element Name
1	Ceramic Substrate
2	Back side electrode
3	Top Electrode
4	Resistor element
5	Protective coating (I)
6	Protective coating (II)
8	Side Electrode
9	Ni Plating
10	Sn Plating



Specifications

Model No.	Size L×W×t (mm)	Rated Power (W)	Tolerance (%)	Resistance (Ω)	T.C.R. (ppm/°C)	Max. Working Voltage (V)	Max. Overload Voltage (V)
NEW WCR20	1.25×2.0×0.55	0.50	F(±1%) J(±5%)	1~91 100~1M	±200 ±100	200	400
NEW WPCR20	1.25×2.0×0.55	1.00	F(±1%) J(±5%)	100~1M 1~1M	±100 ±200		
WCR32	1.6×3.2×0.55	0.75	F(±1%) J(±5%)	1~91 100~1M	±200 ±100		
NEW WSPCR32	1.6×3.2×0.55	1.50	F(±1%) J(±5%)	100~1M 1~1M	±200 ±200		
WCR50	2.5×5.0×0.56	1.00	F(±1%) J(±5%)	100~9.1k 10k~1M	±100 ±200		
WCR64	3.2×6.3×0.56	2.00	F(±1%) J(±5%)	10~91 100~1M	±200 ±200		