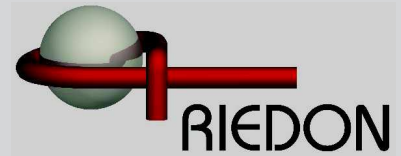


CLR Series

Thick Film Chip Resistor



- Resistances from 1 Ohm to 100 MOhms
- Power Rating 0.05 to 1 Watt
- Resistance Tolerances to $\pm 1\%$
- TCR's to ± 100 ppm/ $^{\circ}$ C
- Sizes: 0201 / 0402 / 0603 / 0805 / 1206 / 1210 / 2010 and 2512

SPECIFICATIONS								
Type	CLR0201	CLR0402	CLR0603	CLR0805	CLR1206	CLR1210	CLR2010	CLR2512
Power Rating (W) at 70°C	0.050	0.063	0.100	0.125	0.250	0.333	0.750	1.000
Resistance Range (Ω) (1% - E24 and E96) (5% - E24)	1 to 10M	1 to 100M	1 to 100M	1 to 100M	1 to 100M	1 to 39M	1 to 100M	1 to 100M
Tolerances	1% / 5%							
Temperature Coefficient	200PPM	1 Ohm - 9.76 Ohm (200PPM) / 10 Ohm - 1M (100PPM) / 1.1M - 10M (200PPM)						
Max. Operating Voltage (V)	25	50	75	150	200	200	200	250
Max. Overload Voltage (V)	50	100	150	300	400	400	400	500
Packaging (pcs) Tape and Reel	10,000		5,000				4,000	

Test	Specification	Test Method
Temperature Coefficient of Resistance	see above	JIS-C-5202 5.2 / IEC 60115-1 4.8 +25/-55/+25/+125, +155/+25°C
Thermal Shock	$\pm(1.0\%+0.05\Omega)$	MIL-STD-202F, Method 107 -55°C~125,155°C,5 cycles
Short Time Overload	$\pm(2.0\%+0.05\Omega)$	MIL-R-55342D 4.7.5 RCWV*2.5 or Max Overloading Voltage, 5 seconds
High Temperature Exposure	$\pm(2.0\%+0.05\Omega)$	MIL-R-55342D 4.7.6 1000 hours @ +125°C without load
Load Life	$\pm(3.0\%+0.05\Omega)$	MIL-STD-202F M108 RCWV, 70°C, 1.5 hours on, 0.5 hours off total 1000~1048 hours
Resistance to Soldering Heat	$\pm(1.0\%+0.05\Omega)$	MIL-R-55342D 4.7.7 260 \pm 5°C, 10 \pm 1seconds
Moisture Resistance	$\pm(2.0\%+0.05\Omega)$	MIL-STD-202F, Method 103 40°C, 90~95%RH, 1000 hours
Low Temperature Operation	$\pm(1.0\%+0.05\Omega)$	MIL-R-55342D 4.7.4 1hour, -55°C, followed by 45 minutes of RCWV
Bending Strength	$\pm(1.0\%+0.05\Omega)$	JIS-C-5202 6.1.4 5 mm deflection in either direction, 10 seconds
Solderability	95% min coverage	MIL-STD-202F-Method 208H 235 \pm 5°C,2 \pm 0.5seconds

Ordering Information

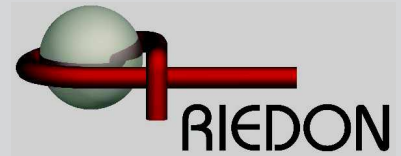
Part Description: Part Type - Resistance - Tolerance - TCR - Packaging

Example: CLR 2010 10 Ohms 1%

(Note: if no TCR is specified: The highest value will be supplied)

CLR Series

Thick Film Chip Resistor



Test	Specification	Test Method
Temperature Coefficient of Resistance	see above	JIS-C-5202 5.2 / IEC 60115-1 4.8 +25/-55/+25/+125, +155/+25°C
Thermal Shock	$\pm(1.0\%+0.05\Omega)$	MIL-STD-202F, Method 107 -55°C~125,155°C,5 cycles
Short Time Overload	$\pm(2.0\%+0.05\Omega)$	MIL-R-55342D 4.7.5 RCWV*2.5 or Max Overloading Voltage, 5 seconds
High Temperature Exposure	$\pm(2.0\%+0.05\Omega)$	MIL-R-55342D 4.7.6 1000 hours @ +125°C without load
Load Life	$\pm(3.0\%+0.05\Omega)$	MIL-STD-202F M108 RCWV, 70°C, 1.5 hours on, 0.5 hours off total 1000~1048 hours
Resistance to Soldering Heat	$\pm(1.0\%+0.05\Omega)$	MIL-R-55342D 4.7.7 260±5°C, 10±1seconds
Moisture Resistance	$\pm(2.0\%+0.05\Omega)$	MIL-STD-202F, Method 103 40°C, 90~95%RH, 1000 hours
Low Temperature Operation	$\pm(1.0\%+0.05\Omega)$	MIL-R-55342D 4.7.4 1hour, -55°C, followed by 45 minutes of RCWV
Bending Strength	$\pm(1.0\%+0.05\Omega)$	JIS-C-5202 6.1.4 5 mm deflection in either direction, 10 seconds
Solderability	95% min coverage	MIL-STD-202F-Method 208H 235±5°C,2±0.5seconds