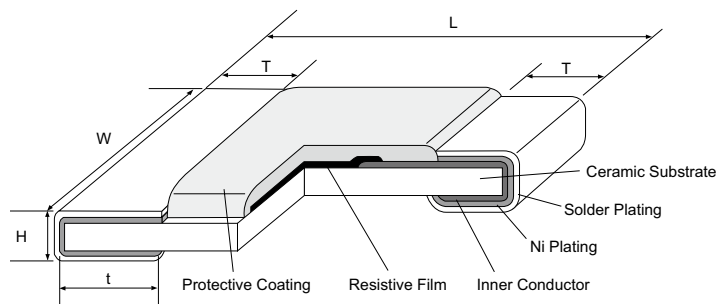




Specifications Per

- CECC 40101
- IEC 40621/2/3
- DIN 45921

Features

- EIA standard sizing
- High Reliable thick film resistive element
- Wraparound termination
- Dipping, wave and reflow soldering applicable
- Lead Free

DIMENSIONS

Type	Size	L (mm)	W (mm)	H (mm)	T (mm)	t (mm)
CPL12	0805	2.00 ± 0.20	1.25 ± 0.15	0.50 ± 0.15	0.35 ± 0.15	0.35 ± 0.15
CPL25	1206	3.20 ± 0.20	1.60 ± 0.20	0.60 ± 0.15	0.45 ± 0.20	0.45 ± 0.20
CPL33	1210	3.20 ± 0.20	2.50 ± 0.20	0.55 ± 0.15	0.50 ± 0.20	0.50 ± 0.20
CPL50	2010	5.00 ± 0.20	2.50 ± 0.20	0.55 ± 0.10	0.60 ± 0.20	0.60 ± 0.20
CPL100	2512	6.30 ± 0.20	3.20 ± 0.20	0.55 ± 0.10	0.60 ± 0.20	0.35 ± 0.15

SPECIFICATIONS

Type	Power Rating (At 70°C)	Max Working Voltage	Max Overload Voltage	Resistance Range Min.	Resistance Range Max.	Resistance Tolerance	Standard Resistance Value
CPL12	1/8 W	(P*R)1/2 V	2*(P*R)1/2 V	0.02Ω	0.976Ω	±1%	E-96
						±5%	E-24
CPL25	1/4 W	(P*R)1/2 V	2*(P*R)1/2 V	0.02Ω	0.976Ω	±1%	E-96
						±5%	E-24
CPL33	1/3 W	(P*R)1/2 V	2*(P*R)1/2 V	0.02Ω	0.976Ω	±1%	E-96
						±5%	E-24
CPL50	3/4 W	(P*R)1/2 V	2*(P*R)1/2 V	0.02Ω	0.976Ω	±1%	E-96
						±5%	E-24
CPL100	1 W	(P*R)1/2 V	2*(P*R)1/2 V	0.02Ω	0.976Ω	±1%	E-96
						±5%	E-24

Special values and specifications not listed available on special order.

■ TECHNICAL SPECIFICATIONS

Characteristics	Limits	
Power Derating, Linear	100% @ <+70°C, down to 0% @ +125°C	
Temperature Coefficient, PPM / °C	0.1Ω ~ 0.976Ω	±200, ±500
	0.02Ω ~ 0.099Ω	±800, ±1200
Operating Temperature Range, °C	-55 ~ +125	
Insulation Resistance, MΩ	10 ⁴	
Voltage Coefficient, PPM / V	25	

■ PERFORMANCE SPECIFICATIONS

Tests Characteristics	Test Conditions	Limit
Short Time Overload	IEC 60115-1 4.13 5 seconds 2.5x rated voltage (not over max. overload voltage)	± 2%
Load Life In Humidity	IEC 60115-1 4.24 56 days at 40°C and 93% relative humidity	± 3%
Load Life (at 70°C)	IEC 60115-1 4.25.1 Rated load 1.5 hours ON, 0.5 hours OFF, at 70°C	± 3%
Resistance To Soldering Heat	IEC 60115-1 4.18 10 seconds at 260°C solder bath temperature	± 1%
Solderability	MIL-STD-202 Method 208 Solder area covered after 230±5°C/5±0.5 seconds w/ flux applied	95% Min.
Vibration	IEC 60115-1 4.22 Six hours in each parallel and axial direction w/ a simple harmonic motion having an amplitude of 0.75mm and 10 to 500 Hz.	± 1%
Thermal Endurance	IEC 60115-1 4.25.3 1000 hours at 125°C without load	± 1.5%
Thermal Shock	IEC 60115-1 4.19 -55°C 30minutes, +125°C 30minutes, 5 cycles	± 1%

■ ORDERING INFORMATION

Type	Tolerance	Resistance Value	Packaging
CPL12	F (1%) J (5%)	R56	TR (Tape/Reel)