SMD Inductors(Coils) For Power Line(Wound, Magnetic Shielded)

Conformity to RoHS Directive

CPL Series CPL2510

FEATURES

- It delivers low Rdc with high Idc.
- It is lead-free compatible. The product contains no lead whatsoever. It is able to withstand high temperature reflows (260°C during the peak) used in lead-free soldering.

APPLICATIONS

Portable audio visual devices (DSCs, DVCs, etc.) Mobile communication devices (cellular phones, etc.) Information devices (PCs, etc.)

SPECIFICATIONS

Operating temperature range	-40 to +105°C [Including self-temperature rise]
Storage temperature range	–40 to +105°C

RECOMMENDED SOLDERING CONDITIONS REFLOW SOLDERING



· All specifications are subject to change without notice.

CPL 2510 T 1R0	Μ
$\frac{1}{(1)} \frac{1}{(2)} \frac{1}{(3)} \frac{1}{(4)} \frac{1}{(4)}$	5)
(1) Series name	
(2) Dimensions	
2510	2.5×1.5×1.0mm
(4) Inductance	
1R0	1µH
	e
(5) Inductance toleranc	
(5) Inductance toleranc	±20%
М	±20%
	±20%

 Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• Please contact our Sales office when your application are considered the following: The device's failure or malfunction may directly endanger human life (e.g. application for automobile/aircraft/medical/nuclear power devices, etc.)

(2/2)

SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM/RECOMMENDED PC BOARD PATTERN

Weight:16mg Dimensions in mm



No polarity



Dimensions in mm



ELECTRICAL CHARACTERISTICS

Inductance (µH)	Inductance tolerance (%)	DC resistance (Ω)±30%	Rated current*1 (mA)max.	Rated current*2 (mA)max.	Part No.
1	±20	0.09	1200	1200	CPL2510T1R0M
1.5	±20	0.12	1000	1000	CPL2510T1R5M
2.2	±20	0.135	800	800	CPL2510T2R2M
3.3	±20	0.27	700	700	CPL2510T3R3M
4.7	±20	0.38	650	650	CPL2510T4R7M

*1 Rated current based on inductance variation: Current when inductance decreases by 30% of the initial value due to direct current superimposed characteristics

*2 Rated current based on increasing product temperature: Current when temperature of the product reaches +40°C

TYPICAL ELECTRICAL CHARACTERISTICS INDUCTANCE vs. FREQUENCY CHARACTERISTICS



IMPEDANCE vs. FREQUENCY CHARACTERISTICS



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INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS



DC SUPERPOSITION vs. INDUCTANCE DECREASING RATE

