

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

TDK Corporation CPL2510T1R0M

For any questions, you can email us directly: sales@integrated-circuit.com



Distributor of TDK Corporation: Excellent Integrated System Limited

Datasheet of CPL2510T1R0M - FIXED IND 1UH 1.2A 90 MOHM SMD

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

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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.

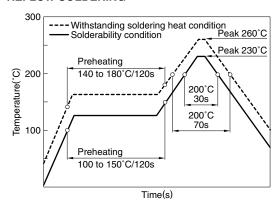
APPLICATIONS

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



PRODUCT IDENTIFICATION

CPL	2510	Τ	1R0	М	
(1)	(2)	(3)	(4)	(5)	

- (1) Series name
- (2) Dimensions

2510	2.5×1.5×1.0mm

(3) Packaging style



(4) Inductance

1R0	1μΗ

(5) Inductance tolerance

M ±20%

PACKAGING STYLE AND QUANTITIES

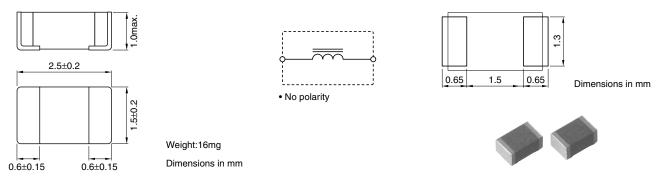
Packaging style	Quantity	
Taping	2000 pieces/reel	

- 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.)

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SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM/RECOMMENDED PC BOARD PATTERN

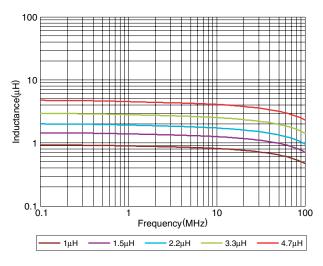


ELECTRICAL CHARACTERISTICS

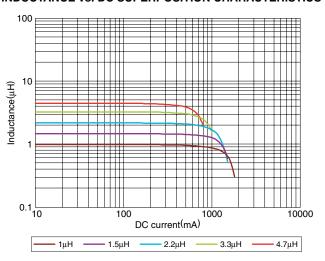
Inductance (µH)	Inductance tolerance (%)	DC resistance (Ω)±30%	Rated current*1 (mA)max.	Rated current*2 (mA)max.	Part No.
1	±20	0.09	1200	1200	CPL2510T1R0M
1.5	±20	0.12	1000	1000	CPL2510T1R5M
2.2	±20	0.135	800	800	CPL2510T2R2M
3.3	±20	0.27	700	700	CPL2510T3R3M
4.7	±20	0.38	650	650	CPL2510T4R7M

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

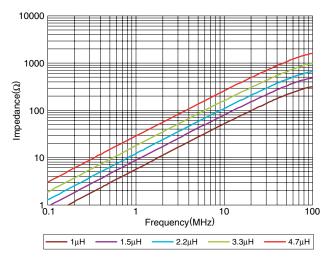
TYPICAL ELECTRICAL CHARACTERISTICS INDUCTANCE vs. FREQUENCY CHARACTERISTICS



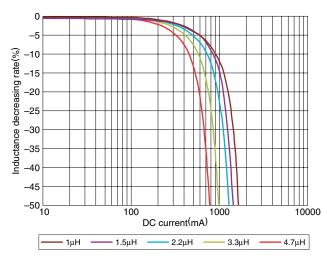
INDUCTANCE vs. DC SUPERPOSITION CHARACTERISTICS



IMPEDANCE vs. FREQUENCY CHARACTERISTICS



DC SUPERPOSITION vs. INDUCTANCE DECREASING RATE



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