

Features

1. The multi-layered Power Inductors provide high reliability for your products.
2. Magnetic shielded structure
3. Condensed SMT available.
4. Minimized design that is suitable for portable electronic equipments requiring low profile.
5. Lead free (ROHS Compliance).

Applications

1. DC-DC converter for mobile phone
2. MP3 Player
3. Digital still cameras / DVR
4. LCD Driver Module
5. Portable digital equipment

Ordering Information

SCPI - **X** **2016** - **472** **N** **J** **T**
 (1) (2) (3) (4) (5) (6) (7) (8)

(1) Products Series

SCPI : Inductor for Power Line

(2) Materials & Design

X: For low resistance

(3) Dimension

First two digits : length (mm)
Last two digits : width (mm)

(4) Thickness

Blank : other normal size (unmarking)

(5) Inductance

First two digits are inductance values.
Last digit is the number of zeros .

(6) Tolerance

M : ±20%
N : ±30%

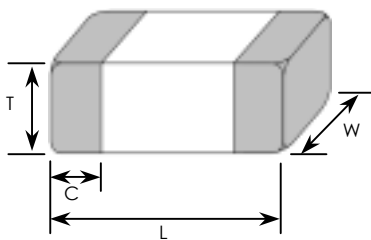
(7) Termination

J : Nickel barrier

(8) Packaging

B : Bulk Packing
T : Tape & Reel (Φ 178mm [7inches])
L : Tape & Reel (Φ 254mm [10inches])

Shape and Dimensions



(Unit : mm [inches])

Type	L	W	T	C
SCPI X2016	2.0±0.20	1.6±0.20	1.0Max	0.5±0.20
	{.079±.008}	{.063±.008}	{.039Max}	{.020±.008}

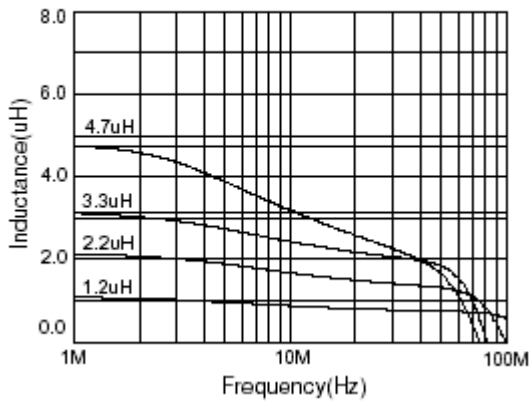
Electrical Parameters

Part Number	Inductance at 1MHz(μ H)		DC Resistance (m Ω)	Current (mA) *1) $\Delta T/T_0 : 40^\circ\text{C}$
	Typ.	Tolerance	$\pm 30\%$	
SCPI-X2016-122□□□	1.2	$\pm 30\%$	100	1400
SCPI-X2016-222□□□	2.2		120	1300
SCPI-X2016-332□□□	3.3		140	1200
SCPI-X2016-472□□□	4.7		160	1100

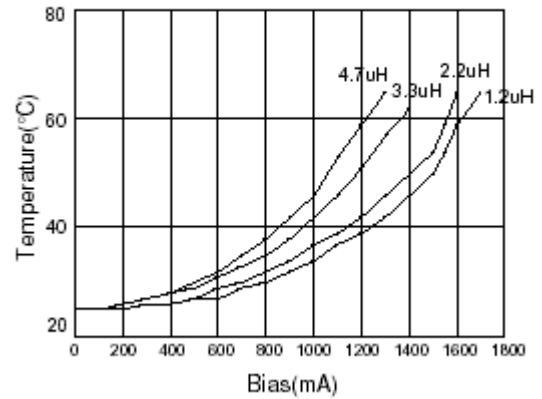
*1)Temperature rise current: The DC current at which the temperature rise due to self-heating is $\Delta t = 40^\circ\text{C}$. ($T_a = 20^\circ\text{C}$)

Electrical Characteristic Curves

Inductance vs Frequency



Temperature vs Bias(ΔT)



Test Equipment & Fixture

- * L, Q : HP4285A LCR Meter
- * Rdc : TWA-161A, B
- * L Test Frequency : 1MHz