

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

$\frac{\text{SCPI}}{(1)} - \frac{\text{A}}{(2)} \frac{2520}{(3)} \frac{472}{(4)} - \frac{\text{M}}{(5)} \frac{\text{J}}{(6)} \frac{\text{T}}{(7)}$

(1) Products Series

SCPI : Inductor for Power Line

(2) Materials & Design

A : For high current

(3) Dimension

First two digits : length (mm)

Last two digits : width (mm)

(4) Inductance

First two digits are inductance values.

Last digit is the number of zeros .

(5) Tolerance

M : $\pm 20\%$

(6) Termination

J : Nickel barrier

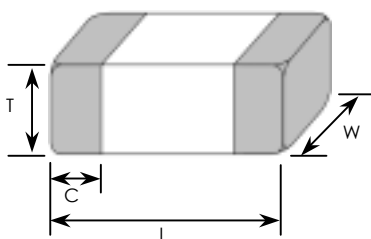
(7) Packaging

B : Bulk Packing

T : Tape & Reel (Φ 178mm [7inches])

L : Tape & Reel (Φ 254mm [10inches])

Shape and Dimensions



(Unit : mm[inch])

Type	L	W	T	C
SCPI A2520	2.5 \pm 0.20 [.098 \pm .008]	2.0 \pm 0.20 [.079 \pm .008]	1.0 \pm 0.20 [.039 \pm .008]	0.5 \pm 0.20 [.020 \pm .008]

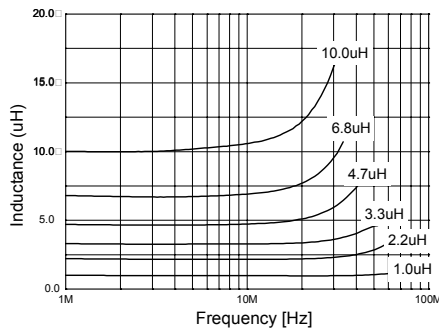
Electrical Parameters

Part Number	Inductance at 1MHz(μ H)		Q-factor at 1MHz	DC Resistance ($m\Omega$) $\pm 20\%$	Current (mA) ^{*1)} $\Delta L/L_0 = 30\%$
	Typ.	Tolerance	Typ		
SCPI-A2520-102□□□□	1.0	$\pm 20\%$	15	290	1200
SCPI-A2520-222□□□□	2.2		19	430	1000
SCPI-A2520-332□□□□	3.3		23	520	950
SCPI-A2520-472□□□□	4.7		26	650	850
SCPI-A2520-682□□□□	6.8		30	790	600
SCPI-A2520-103□□□□	10.0		35	740	350

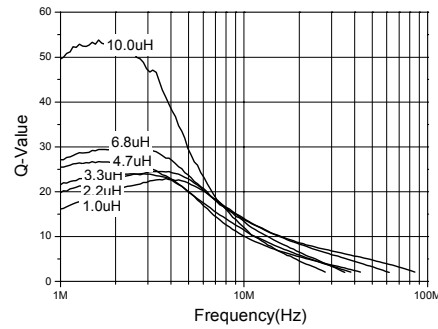
*1) Saturation Current: The DC current at which the inductance decreases to 70% of its initial value.

Electrical Characteristic Curves

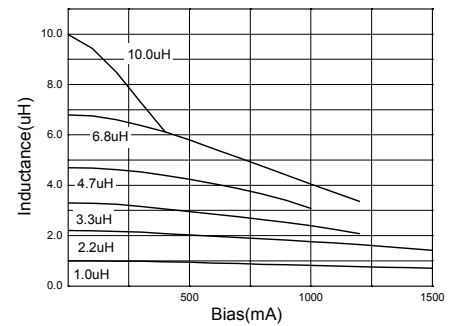
Inductance vs Frequency



Q-factor vs Frequency



Inductance vs Bias



Test Equipment & Fixture

※ L, Q : HP4285A LCR Meter

※ Rdc : TWA-161A, B

※ L Test Frequency : 1MHz