

### 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** - **XH** **2520** - **472** **M** **J** **T**  
 (1) (2) (3) (4) (5) (6) (7) (8)

#### (1) Products Series

SCPI : Inductor for Power Line

#### (2) Materials & Design

XH: 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

N : ±30%

#### (7) Termination

J : Nickel barrier

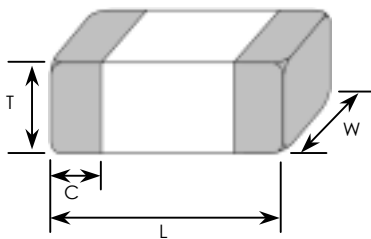
#### (8) Packaging

B : Bulk Packing

T : Tape & Reel (Φ 178mm [7inches])

L : Tape & Reel (Φ 254mm [10inches])

### Shape and Dimensions



(Unit : mm[inch])

Type	L	W	T	C
SCPI XH2520	2.5±0.20	2.0±0.20	1.0 Max	0.5±0.20
	(.098±.008)	(.079±.008)	(.039 Max)	(.020±.008)

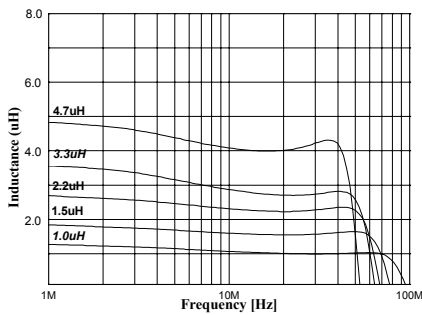
### Electrical Parameters

Part Number	Inductance at 1MHz( $\mu\text{H}$ )		DC Resistance ( $\text{m}\Omega$ )	Current (mA) *1) $\Delta\text{T}/\text{T}_0 : 40^\circ\text{C}$
	Typ.	Tolerance	$\pm 30\%$	
SCPI-XH2520-122□□□	1.2	$\pm 30\%$	85	1900
SCPI-XH2520-152□□□	1.5		100	1600
SCPI-XH2520-222□□□	2.2		110	1500
SCPI-XH2520-332□□□	3.3		130	1400
SCPI-XH2520-472□□□	4.7		150	1300

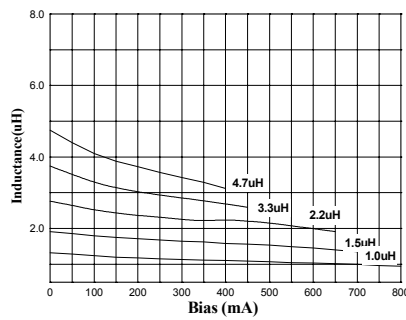
\*1) Temperature rise current: The DC current at which the temperature rise due to self-heating is  $\Delta t = 40^\circ\text{C}$ . ( $T_a = 20^\circ\text{C}$ )

### Electrical Characteristic Curves

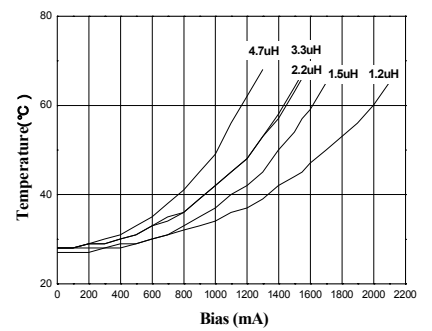
Inductance vs Frequency



Inductance vs Bias( $\Delta\text{L}$ )



Temperature vs Bias( $\Delta\text{T}$ )



Test Equipment & Fixture

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