Type:SHCJ1030V

◆ **Product Description**

・10.2×14.3mm Max.(L×W)3.6mm Max. Height.

・Inductance Range: 0.15～4.70 µH

・In addition to the standards versions shown here,

・custom inductors are also available to meet your exact requirements.

◆ **Feature**

・Lowest height in this package footprint

・Shielded construction

・Lowest DCR/µH, in this package size.

・ Handles high transient current spikes without saturation.

・Ultra low buzz noise, due to composite construction.

・The products contain no lead and also support lead-free soldering.

◆ **Applications**

・End products in voltage regulator module (VRM)

・PDA/Notebook/Desktop/Server applications

・High current POL converters

・Low profile,high current power supplies

・Battery powered devices

・DC/DC converters in distributed power systems

・DC/DC converter for Field Programmable Gate Array(FPGA

◆ **Dimensions (mm)** General Tolerance:±0.3
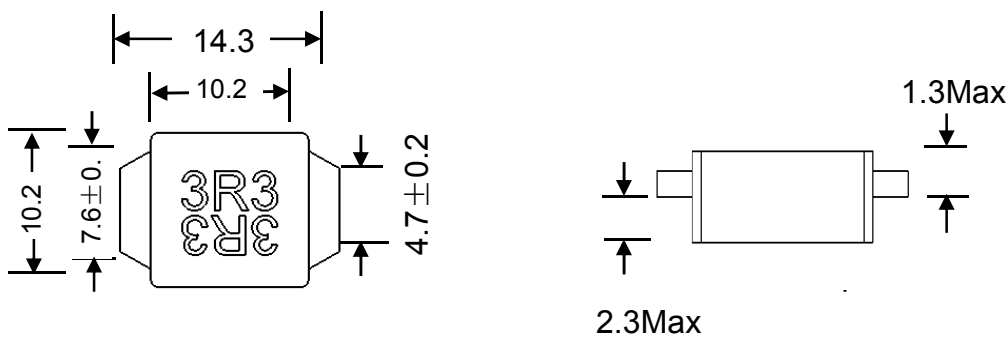
◆ **Land Pattern(mm)**
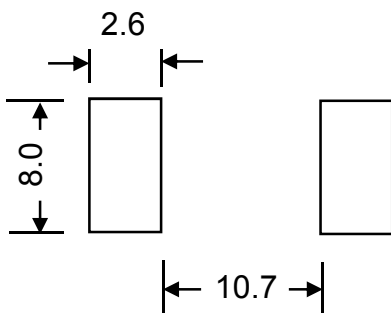
Type:SHCJ1030V

◆ Specification

Suntek Part Number	System code	Inductance L0 (µH)±20% @ 0 A	I rms (A)Max.	I sat (A)Max.	DCR(mΩ) typ.@25℃	DCR(mΩ) Max.@26℃
SHCJ1030V-R15M		0.15	36.5	60.0	0.80	0.98
SHCJ1030V-R22M		0.22	31.5	57.5	1.10	1.32
SHCJ1030V-R33M		0.33	28.0	50.5	1.55	1.68
SHCJ1030V-R47M		0.47	23.4	42.0	2.22	2.40
SHCJ1030V-R56M		0.56	21.5	39.0	2.15	2.82
SHCJ1030V-R68M		0.68	20.0	36.0	2.60	3.32
SHCJ1030V-R82M		0.82	19.5	35.5	3.10	3.44
SHCJ1030V-1R0M		1.00	18.5	34.0	3.20	3.74
SHCJ1030V-1R5M		1.50	15.0	27.0	4.55	5.84
SHCJ1030V-2R2M		2.20	12.0	21.5	7.85	9.09
SHCJ1030V-3R3M		3.30	9.0	16.5	11.5	15.5
SHCJ1030V-4R7M		4.70	7.5	13.5	16.5	23.5

※**Description of Part Name**

SHCJ1030V-R47M

Inductance(L)

Inductor size(Length x Height)
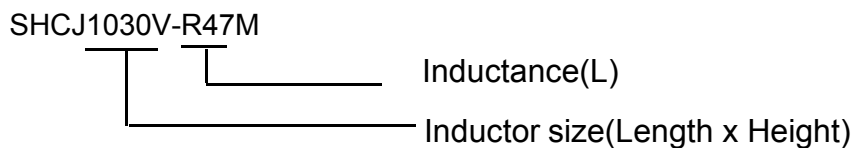
Note:

1. Test frequency : 100KHz / 1.0V

2. All test data referenced to 20℃ ambient.

3. Testing Instrument : L: HP4284A,CH11025,CH3302,CH1320 ,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.

4. Heat Rated Current (Irms) will cause the coil temperature rise approximately △T=40℃without core loss..

5. Saturation Current (Isat) will cause L0 to drop approximately20%typical.

6. The part temperature (ambient + temp rise) should not exceed 125 ℃under worst case operating conditions.Circuit design,component,PCB trace size and

thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application