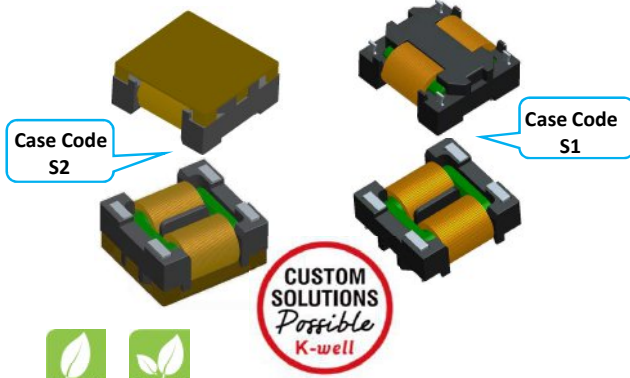


**NEW!**



**Features :**

- ◆ Rated voltage : 80VAC- 280VAC;
- ◆ Compact size, low DCR, low leakage flux due to Square core construction.
- ◆ Using high permeability material ,High impedance at low frequency band.
- ◆ There is no danger of layer short for the single-layer rolling.
- ◆ High attenuation to the normal mode noise, due to low stray capacitance.
- ◆ Withstanding Voltage between windings : 2400VAC / 60 sec.
- ◆ Insulation resistance  $\geq 100M\Omega @ 500VDC$  between windings.
- ◆ Flammability corresponding to UL 94 V-0.
- ◆ Low cost, high consistency due to automated production.

**Environmental Data :**

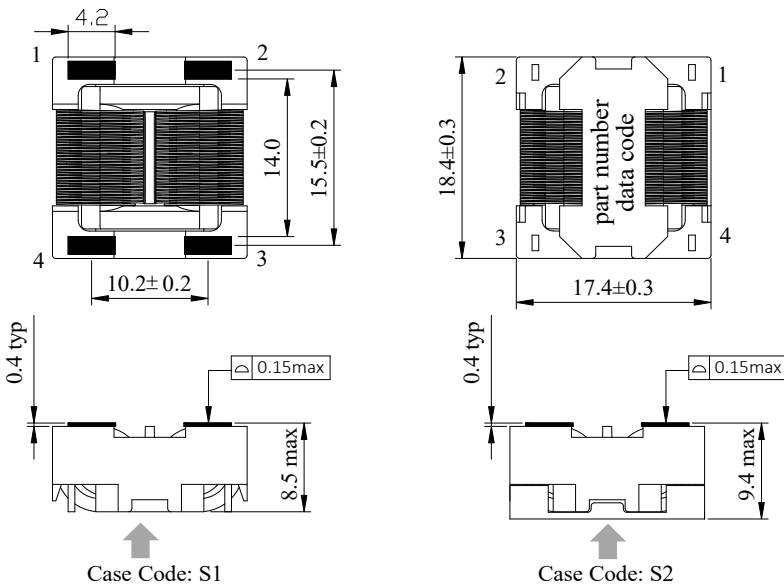
- ◆ Operating temperature:  $-40\text{ }^{\circ}\text{C} \sim +125\text{ }^{\circ}\text{C}$ , (Including coil's self temperature rise).
- ◆ Storage temperature:  $-40\text{ }^{\circ}\text{C} \sim +85\text{ }^{\circ}\text{C}$
- ◆ RoHS ,REACH compliance

**Applications :**

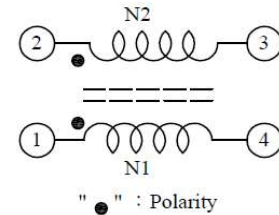
- ◆ Solutions for use in a wide array of power line circuits.
- ◆ Switching mode power supply devices.
- ◆ Ideal for use in consumer electronics and industrial applications: LCD TV, OA equipment, Battery chargers, Power Adapter, Home electric appliances...
- ◆ Perfect replace of conventional Common Mode Chokes.

**Dimensions & Shape :** [mm]

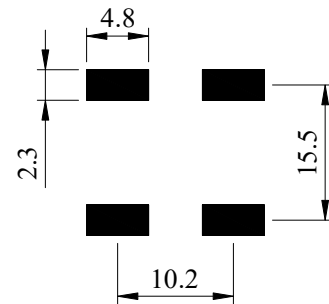
Horizontal type | Case Code: S1 & S2



**Circuit Diagram :**



**Recommended Land Pattern :** [mm]



**Product Identification :**

**SSQ 12N - U100 S1 - 183 S**

①	②	③	④	⑤	⑥
<b>Product type</b>	<b>External Dimensions</b>	<b>Internal control code</b>	<b>Mounting &amp; Directions</b>	<b>Inductance value in uH</b>	<b>Inductance Tolerance</b>
surface mount, square core, flat wire, common mode choke	12N: L*W*H [mm] 18.4*17.4*8.2mm	Design code and rated current	Horizontal type, SMD mounting and case code	143=14.0 mH 602=6.0 mH 451=0.45 mH	N: $\pm 30\%$ ; P: $\pm 25\%$ M: $\pm 20\%$ ; L: $\pm 15\%$ K: $\pm 10\%$ ; J: $\pm 5\%$ S: minimum value

**NEW!**

Part Number	Inductance	Stray Inductance	DC Resistance		Rated Current
	[ mH / Line ]	[ uH ]	[ mΩ / Line ]	[ mΩ / Line ]	[ A ]
	Min.	Typ.	Typ.	Max.	Max.
SSQ12N-U100S1-223S	22.0	115	180	216	1.0
SSQ12N-U120S1-153S	15.0	85	132	158	1.2
SSQ12N-150S1-123S	12.0	58	96	115	1.5
SSQ12N-U180S1-822S	8.2	45	75	95	1.8
SSQ12N-U250S1-562S	5.6	30	42	52	2.5
SSQ12N-U350S1-332S	3.3	20	20	25	3.5

**\* Custom design are available upon requested.**

1. Inductance shown for each winding, measured at: 1kHz, 0.25Vrms, 0A<sub>dc</sub>, on an Agilent/HP4284A LCR meter or equivalent.
2. Common mode impedance measured by Agilent 4294A or WAYNE KERR 6500B or equivalent.
3. DC Resistance is for each winding. All of electrical specifications measured at 25°C.
4. Rated current that causes a 45°C temperature rise from 20°C ambient. This information is for reference only, the actual temperature rise depends on the condition of your circuit and the heat dissipation conditions.
5. Dielectric strength : 2400 Vac / 60 seconds between winding to winding.
6. Insulation resistance  $\geq 100M\Omega$  @500V<sub>dc</sub> between winding to winding.
7. Standard packing : Tape and Reel, 350 pcs / 13" reel.