



Features

- Current rating up to 1.4 A
- Inductance range: 120 to 5000 μ H
- Frequency range to 200MHz
- RoHS compliant*

Applications

- EMI suppression

SF1006 Series - Line Filter

Electrical Specifications @ 25 °C

| Part Number | L (μ H) * | Leakage Ind. (μ H) Max. | DCR (\wedge) max. (each winding) | Rated Voltage (Vdc) | Rated Current (A) | Impedance (Z) | |
|-------------|-----------------|------------------------------|--------------------------------------|---------------------|-------------------|-------------------|-------------------------|
| | | | | | | Freq. Range (MHz) | Min. Value (\wedge) |
| SF1006-121Y | 120 \pm 40 % | 1.45 | 0.025 | 50 | 1.40 | 10 - 200 | 200 |
| SF1006-251Y | 250 \pm 40 % | 3.2 | 0.035 | 50 | 1.19 | 5 - 100 | 400 |
| SF1006-501Y | 500 \pm 40 % | 5.6 | 0.070 | 50 | 0.84 | 2 - 50 | 800 |
| SF1006-102Y | 1000 \pm 40 % | 12 | 0.180 | 50 | 0.52 | 1 - 40 | 1400 |
| SF1006-202Y | 2000 \pm 40 % | 0.23 | 0.270 | 50 | 0.40 | 0.5 - 15 | 2000 |
| SF1006-302Y | 3000 \pm 40 % | 0.26 | 0.330 | 50 | 0.35 | 0.5 - 10 | 3000 |
| SF1006-402Y | 4000 \pm 40 % | 0.27 | 0.550 | 50 | 0.30 | 0.5 - 5 | 4000 |
| SF1006-472Y | 4700 \pm 40 % | 0.28 | 1.000 | 50 | 0.25 | 0.6 - 36 | 200 |
| SF1006-502Y | 5000 \pm 40 % | 0.29 | 0.620 | 50 | 0.25 | 0.5 - 3 | 5000 |

* Test condition: 0.1 V, 100 KHz

General Specifications

Temperature Rise .. 45 °C at rated current
 Hi-Pot
 120 - 1000 μ H 1000 Vrms, 60Hz, 3 mA, 1 min.
 2000 - 5000 μ H 300 Vrms, 60Hz, 3 mA, 1 min.

Operating Temperature
 -40 °C to +105 °C
 (Temperature rise included)

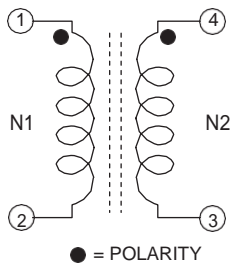
Storage Temperature .. -40 °C to +105 °C
 Solderability 245 °C for 5 sec.

(JEDEC J-STD-020D)

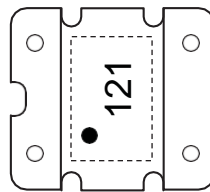
Materials

Core Material..... Ferrite
 Base..... Phenolic
 Wire Enameled copper
 Terminal coating Sn
 Packaging 800 pcs. per 13-inch reel

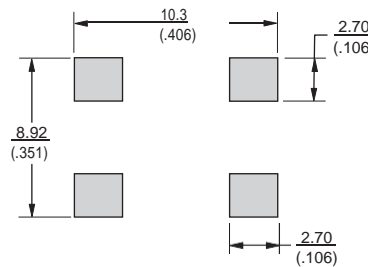
Schematic



Typical Part Marking



Recommended Layout



How to Order



Product Dimensions

