

10/100 BASE-T SINGLE PORT SURFACE MOUNT MAGNETICS

With Various Turns Ratios



- 1) Meets IEEE 802.3 and ANSI X3.263 standards, including 350uH min. OCL with 8mAdc bias .
- 2) Designed for reflow soldering at temperatures up to 245°C .
- 3) Compact footprint for use in the most space restrictive applications .

Electrical Specifications @ 25°C --- Operating temperature -40°C To +85°C .

Part Number : S16-8380G

Electrical Specifications :

1) TURNS RATIO :

(1-2-3) : (16-15-14) = 1CT : 1CT +/-3%

(6-7-8) : (11-10-9) = 1CT : 1CT +/-3%

2) INDUCTANCE :

(16-14) = (11-9) : 470 uH min. @ 100KHz 0.1V, with 8mA DC

3) LEAKAGE INDUCTANCE :

(16-14) : 0.40 uH Max.@1MHz (short 1+2+3)

(11-9) : 0.40 uH Max.@1MHz (short 6+7+8)

4) INTERWINDING CAPACITANCE :

(1-2-3) & (16-15-14) : 25 pF Max.@ 1MHz

(6-7-8) & (11-10-9) : 25 pF Max.@ 1MHz

5) D.C.Resistance :

(16-14) = (11-9) : 0.80 ohm max.

(1-3) = (6-8) : 1.20 ohm max.

6) DIELECTRIC VOLTAGE WITHSTAND:

(1-3)(6-8) to (16-14)(11-9) : 1500VAC 0.5mA 2 sec

7) CMR : -35dB TYP @ 0.1~100MHz

CROSSTALK: -40dB MIN. @ 0.1~100MHz

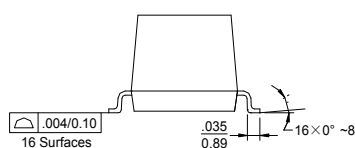
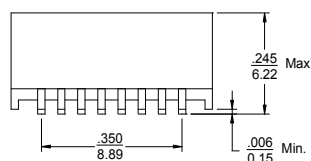
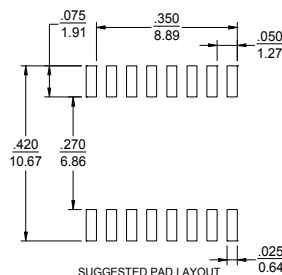
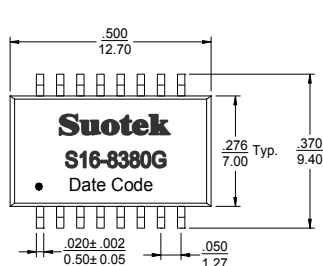
INSERTION LOSS: -1.1dB MAX. @ 0.1~100MHz

RETURN LOSS: -18dB MIN. @ 0.5~30MHz

-13.6dB MIN. @ 50MHz

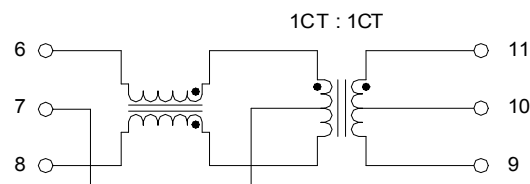
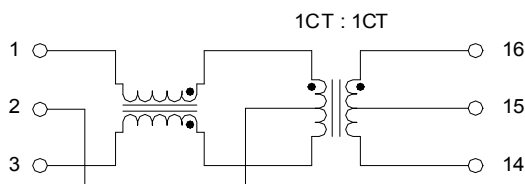
-12dB MIN. @ 60~80MHz

Mechanical Dimensions (Unit: inches / mm)



Unless otherwise specified , all tolerances are +/- .010 / 0.25

Schematics



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