10/100 BASE SMD ETHERNET FILTER P/N: 16ST8515

A.GENERAL SPECIFICATIONS:

1.DESIGNED FOR 10/100 MB/s TRANSMISSION OVER UTP-5 CABLE.
2.TESTED & QUALIFIED FOR USE WITH NATIONAL SEMICONDUCTOR'S DP83840 ETHERNET 10/100 PHY CHIP.
3.CABLE INTERFACE FOR ISOLATION AND LOW COMMON MODE EMISSIONS.
4.16-PIN DIP PACKAGE FOR ECONOMIC COST.
5.OPERATING TEMP RANGE:0°C TO +70°C
6.STORAGE TEMP RANGE: -25°C TO +125°C

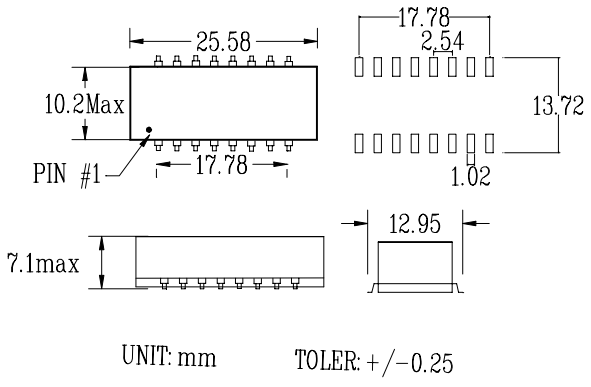
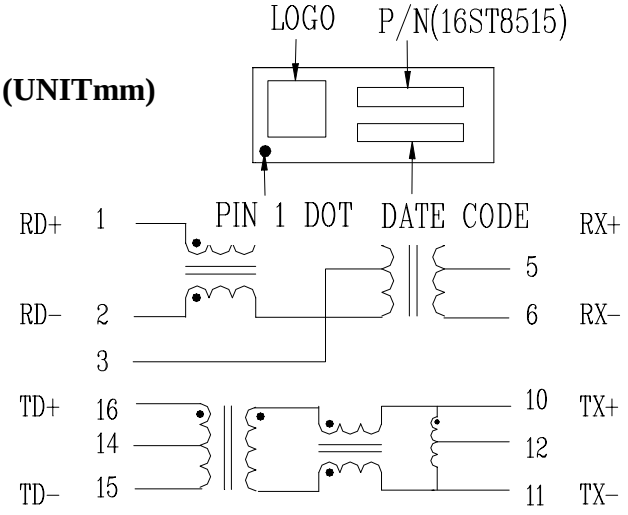
B.ELECTRICAL SPECIFICATIONS:

1.TURN RATIO: 1CT: 1CT(RX&TX)
2.INSERTION LOSS 0.1 TO 100 MHz (dB MAX.)-1.1
3.RISE TIME:(10-90%): 2.5 nS TYP
4.RETURN LOSS (dB MIN):

FREQUENCY	TX&RX	FREQENCY	TX&RX
0.1MHz-10MHz	-20	10MHz-30MHz	-19
30MHz-60MHz	-14	60MHz-100MHz	-12

5.DIFFERENTIAL TO COMMON MODE REJECTION (dB MIN.):

FREQUENCY	TX	RX
0.1-60 MHz	-42	-40
60-100 MHz	-40	-35

6.CROSS TALK (dB MAX.): 0.1-60 MHz -40
60-100MHz -38
7.VOLTAGE ISOLATION(Vrms MIN.):1500
8.PRI.DCR(Ω)MAX:TX&RX=0.9
9.PRI.OCL(uH min):TX&RX=350 WITH 8mA DC BIAS
10. PRI L.L(uH Max) TX&RX :0.6
11. PRI Cw/w(pF Max) TX&RX :28

C. SCHEMATIC & DIMENSIONS & MARKING (UNITmm)