

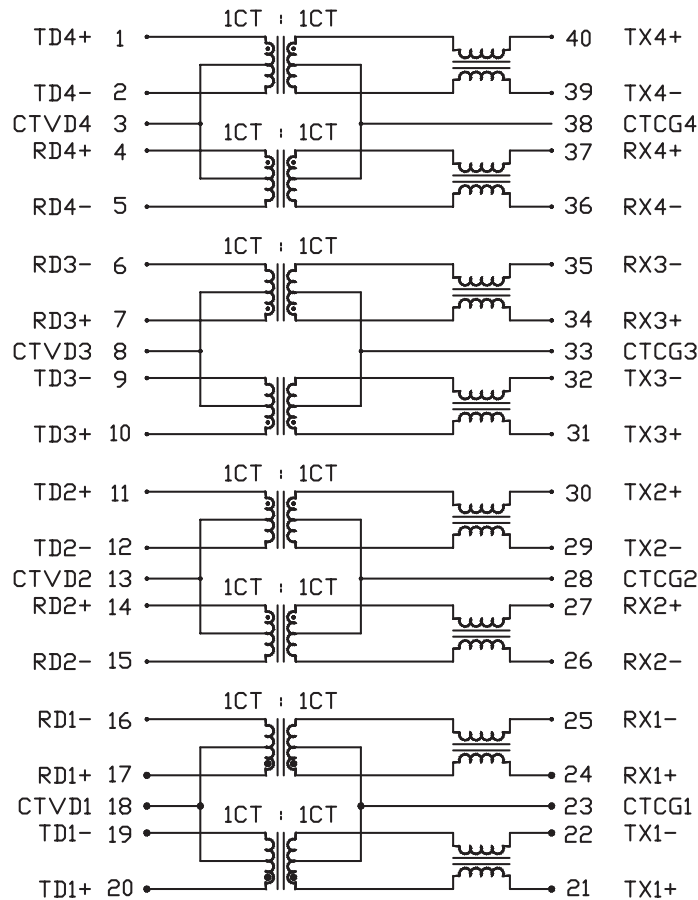
10/100BASE-T LAN MAGNETICS

S558-5999-Q9-F Transformer Module for Auto MDIX



ELECTRICAL CHARACTERISTICS @ 25°C

SCHEMATIC



TURNS RATIO

Tx SIDE:
Rx SIDE:

1CT : 1CT
1CT : 1CT

POLARITY :

Rx 4°&37°, 7°&34°, 14°&27°, 17°&24°
Tx 1°&40°, 10°&31°, 11°&30°, 20°&21°
IN PHASE

QCL

350μH MIN. @ 100kHz, 100mV
WITH 8mA D.C. BIAS.

INSERTION LOSS

@ 100kHz - 80MHz 1.0 dB MAX

RETURN LOSS

MEASURED UNDER A
100 Ω ENVIRONMENT

@ 0.1MHz - 30MHz 18 dB MIN.
@ 30MHz - 60MHz 18-20 LOG(F/30MHz)
@ 60MHz - 80MHz 12 dB MIN.

COMMON TO DIFFERENTIAL MODE REJECTION

@ 0.1MHz TO 100MHz 40 dB MIN.

COMMON TO COMMON MODE REJECTION

@ 0.1MHz TO 100MHz 35 dB MIN.
@ 100MHz TO 500MHz 20 dB MIN.

CROSSTALK

@ 0.1MHz TO 100MHz 32 dB MIN.

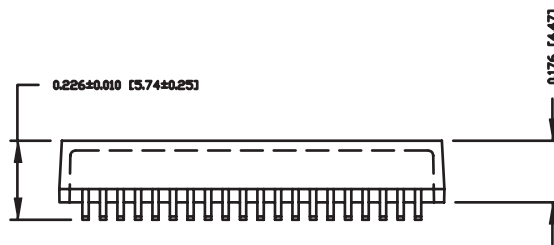
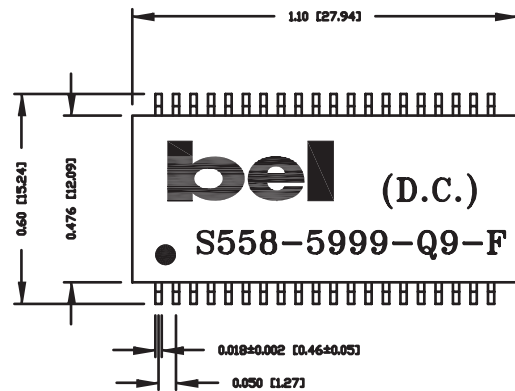
HIPOT

1500 Vrms

Meets all IEEE 802.3 standards including 350μH with 8mA DC bias

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NOTES:

1. STANDARD MARKING REFER TO DOC. HAND-WORK-04.
2. PACKAGE CODE: "RRS001".

SUGGESTED PCB PAD LAYOUT

