Designed to accommodate 350mA of balanced DC as stipulated in IEEE 802.3af

RoHS
2002/95/EC.

ELECTRICAL CHARACTERISTICS @ 25°C

SCHEMATIC

CHIP SIDE   LINE SIDE

1CT : 1CT

TD+ 1 — — 16 TX+

TCT 2 — — 15 TXCT

TD- 3 — — 14 TX-

4 —   — 13

5 —   — 12

1CT : 1CT

RD+ 6 — — 11 RX+

RCT 7 — — 10 RXCT

RD- 8 — — 9 RX-
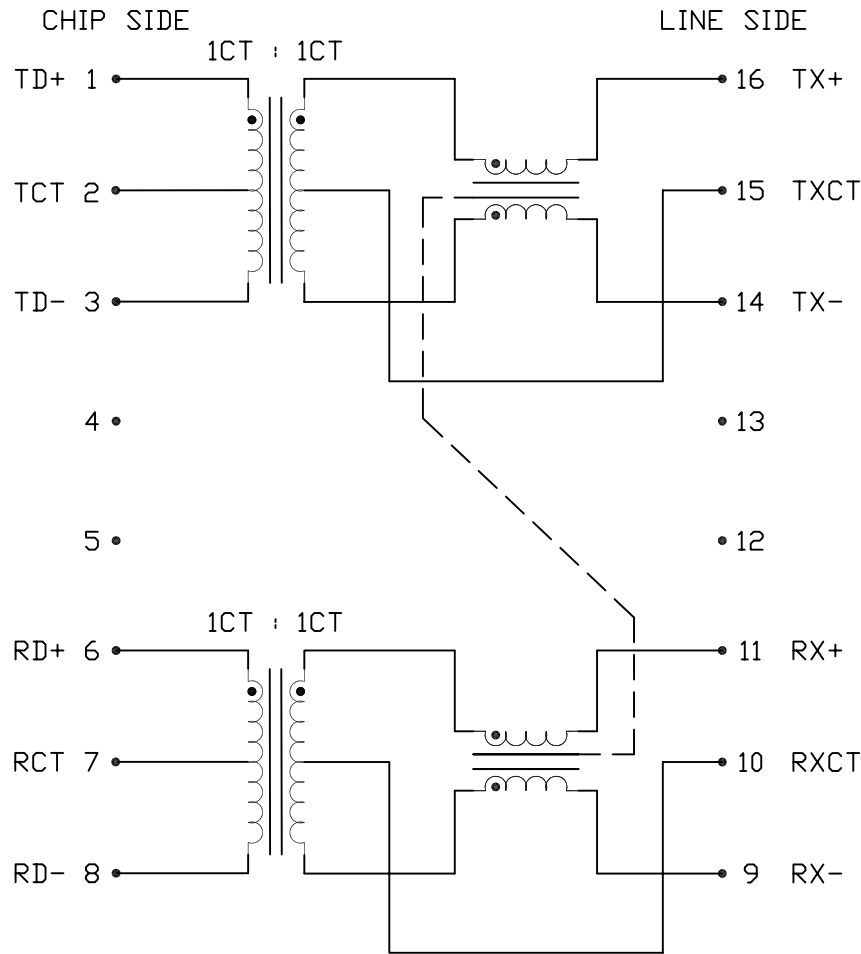
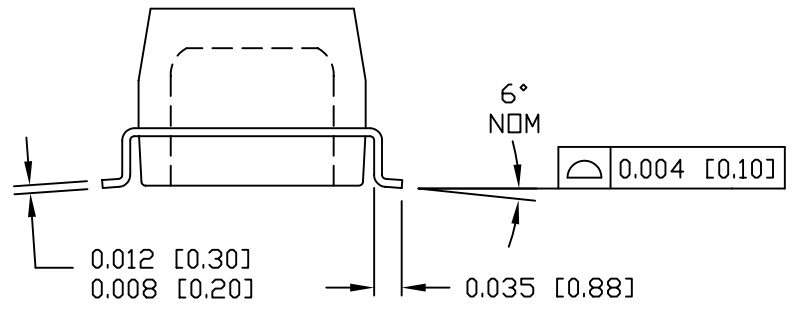|	
TURNS RATIO	
PIN 1-2-3 : 16-15-14	1CT : 1CT
PIN 6-7-8 : 11-10-9	1CT : 1CT
OCL (0°~70°C)	350 μH MIN.
Tx PIN 1-3 OPEN 16-14	@ 100kHz, 100mVrms
Rx PIN 6-8 OPEN 11-9	WITH 8mA DC BIAS
LEAKAGE INDUCTANCE, L_L	0.30 μH MAX.
Tx PIN 1-3 SHORT 16-14	@ 1MHz, 20mV
Rx PIN 6-8 SHORT 11-9	
INTERWINDING CAPACITANCE, Cw/w	30 pF MAX.
	@ 1MHz, 20mV
Tx PIN 1-3 TO 16-14	
Rx PIN 6-8 TO 11-9	
DCR	
PIN (1-3) ; (6-8)	1.1 Ohm MAX.
INSERTION LOSS	
1 MHz TO 100 MHz	1.2 dB MAX.
RETURN LOSS	
1 MHz - 30 MHz	18 dB MIN.
30 MHz -60 MHz	18-20 LOG (f/30MHz)
60 MHz - 80 MHz	12 dB MIN.
COMMON TO DIFFERENTIAL	35 dB MIN.
100 kHz - 100 MHz	
CROSSTALK	35 dB MIN.
100 kHz - 100 MHz	
HIPOT	PER HAND-WORK-03

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REFERENCE	bel
HO	07-19-05	VOIP INTERFACE MODULE	X558550025-F		UNIT : INCH [mm]	REV. : A
DRAWN BY	DATE	S558-5500-25-F	FILE NAME	.X	SCALE : N/A	SIZE : A4
DQ Chen	07-19-05		X558550025FA.DWG	.XX		PAGE : 2
				.XXX		COMPONENTS FOR A CONNECTED PLANET

RoHS
2002/95/EC

SUGGESTED PCB PAD LAYOUT

0.485 [12.32]
MAX.

0.050 [1.27]

0.375 [9.52]
0.350 [8.89]

0.285 [7.24]
MAX.

0.425 [10.80]

0.070 [1.78]

bel (D.C.)

S558-5500
-25-F

0.050 [1.27]
TYP.

0.018±0.002
[0.46±0.05]

0.025 [0.62]

0.003 [0.08]
MIN.

0.225 [5.71]
MAX.

0.35±0.01
[8.89±0.25]

6°
NOM

0.004 [0.10]

0.012 [0.30]
0.008 [0.20]

0.035 [0.88]
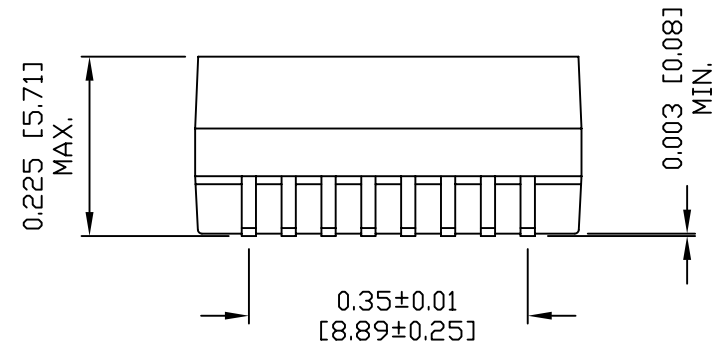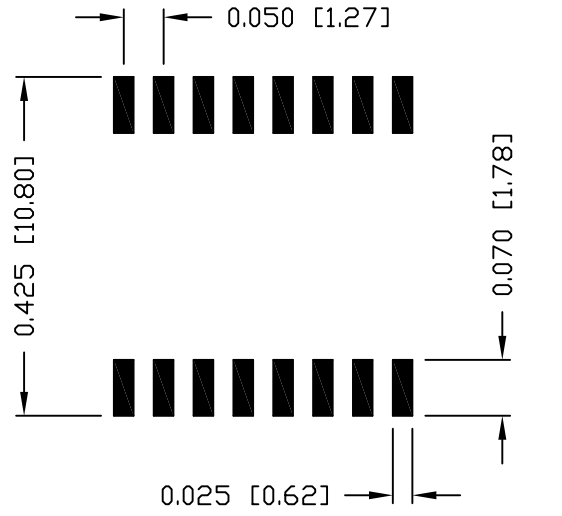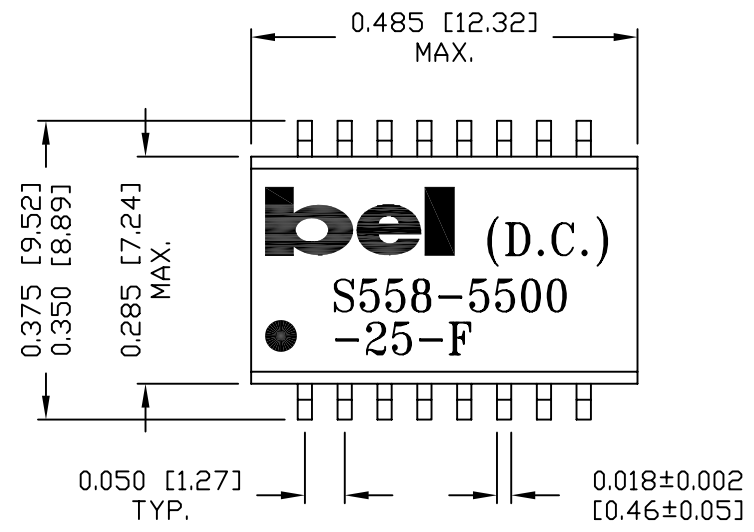
NOTES:

1. STANDARD MARKING REFER TO DOC. HAND-WORK-04.

2. PACKAGE CODE: "QBS001".

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH		[ ] METRIC DIM. AS REFERENCE		
HO	07-19-05	MECHANICAL DRAWING	X558550025-F	.X		UNIT : INCH [mm]	REV. : A	bel
DRAWN BY	DATE	S558-5500-25-F	FILE NAME	.XX	±0.01	SCALE : N/A	SIZE : A4	COMPONENTS FOR A CONNECTED PLANET
DQ Chen	07-19-05		X558550025FA.DWG	.XXX	±0.005		PAGE : 3	