



THE DATASHEET OF
S558-5999-Z5-F

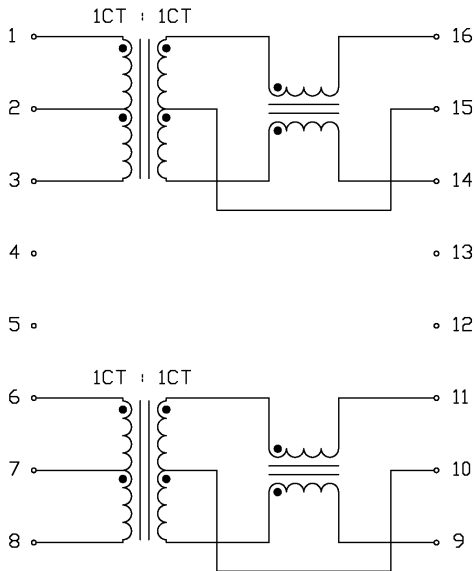


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ELECTRICAL CHARACTERISTICS @ 25°C



SCHEMATIC



URNS RATIO
Tx (1&2&3) : (16&15&14)
Rx (6&7&8) : (11&10&9)

1CT : 1CT
1CT : 1CT
16 TO 1 ; 14 TO 3
11 TO 6 ; 9 TO 8

PHASING

DCL (-40°C - 85°C)
Tx (16&14)
Rx (11&9)

@ 100kHz 100mVrms, w/8mA DC BIAS
350uH MIN.
350uH MIN.

LEAKAGE INDUCTANCE (Le)
Tx (16&14) WITH 1&2&3 SHORTED:
Rx (11&9) WITH 6&7&8 SHORTED:

@ 1 MHz, 20mV
0.35uH MAX.
0.35uH MAX.

INTERWINDING CAPACITANCE (Cw/w)
Tx (1&3 TO 16&14) & Rx (6&8 TO 11&9)

@ 1 MHz, 20mV
30pF MAX.

DCR WINDING RESISTANCE
(1-3) ; (6-8)
(16-14) ; (11-9)

1.0 OHMS MAX.
2.0 OHMS MAX.

INSERTION LOSS
@100kHz TO 100MHz

1.0dB MAX.

RETURN LOSS
(UNDER 100 OHMS ±15% ENVIRONMENT)
@0.1 TO 30 MHz
@30 TO 60 MHz
@60 TO 80 MHz

18dB MIN.
18-20 LOG (F/30MHz)
10dB MIN.

COMMON TO COMMON MODE ATTENUATION
@0.1 TO 100 MHz

30dB MIN.

CROSSTALK
@1MHz TO 100MHz

35dB MIN.

COMMON TO DIFFERENTIAL MODE ATTENUATION
@0.1 TO 100 MHz

40dB MIN.

HIPOT

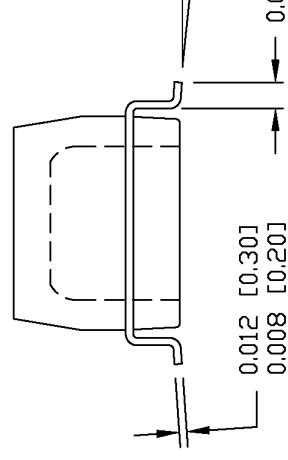
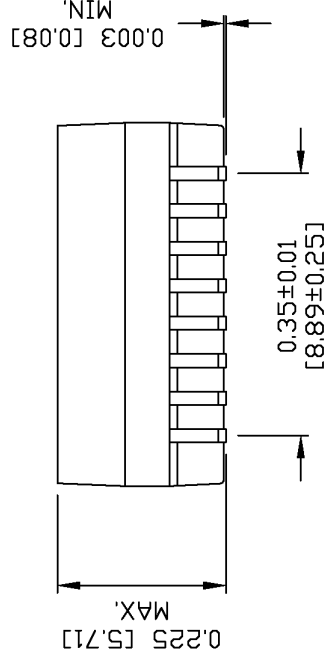
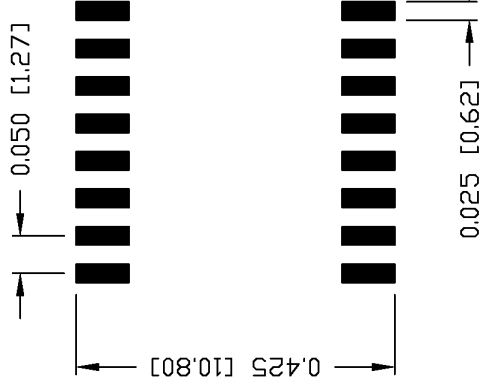
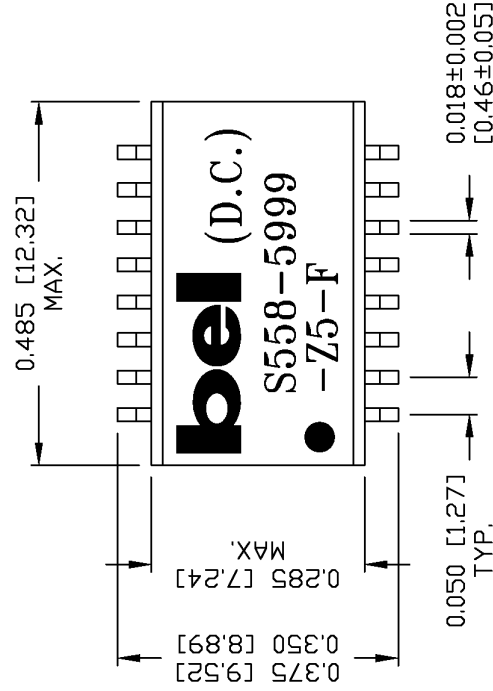
PER HAND-WORK-03

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE
HO	04-27-06	10/100BT MAGNETICS MODULE	X5585999Z5-F	.X	UNIT : INCH [mm] REV. : A
DRAWN BY	DATE	S558-5999-Z5-F	FILE NAME	.XX	SCALE : N/A SIZE : A4
DQ Chen	04-27-06		X5585999Z5FA.DWG	.XXX	PAGE : 2



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SUGGESTED PCB PAD LAYOUT



NOTES:

1. STANDARD MARKING REFER TO DOC. HAND-WORK-04.
2. PACKAGE CODE: "QBS001".

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[] MET
HO	04-27-06	MECHANICAL DRAWING	X5585999Z5-F	TOL. IN INCH	UNIT :
DRAWN BY	DATE	S558-5999-Z5-F	FILE NAME	X	SCALE :
DQ Chen	04-27-06		X5585999Z5FA.DWG	.XX	±0.01
DC002(2)032305				.XXX	±0.005

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