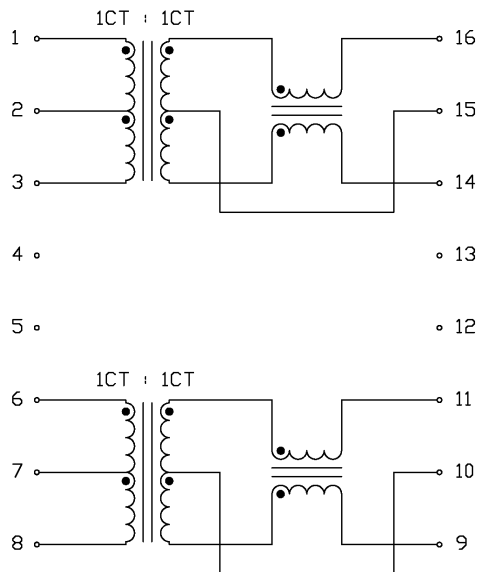


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ELECTRICAL CHARACTERISTICS @ 25°C



SCHEMATIC



TURNS RATIO

Tx (1&2&3) : (16&15&14)

Rx (6&7&8) : (11&10&9)

1CT : 1CT

1CT : 1CT

PHASING

16 TO 1 ; 14 TO 3

11 TO 6 ; 9 TO 8

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

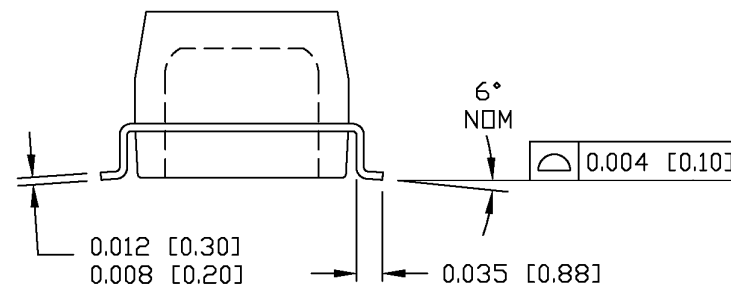
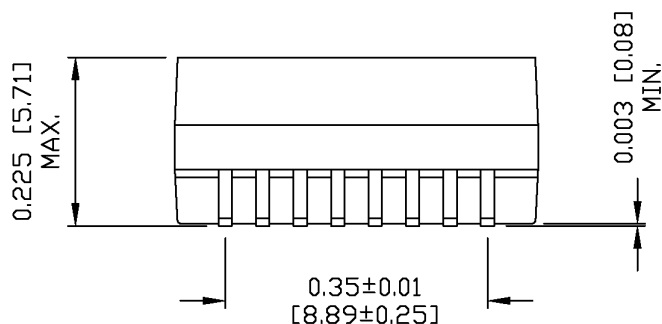
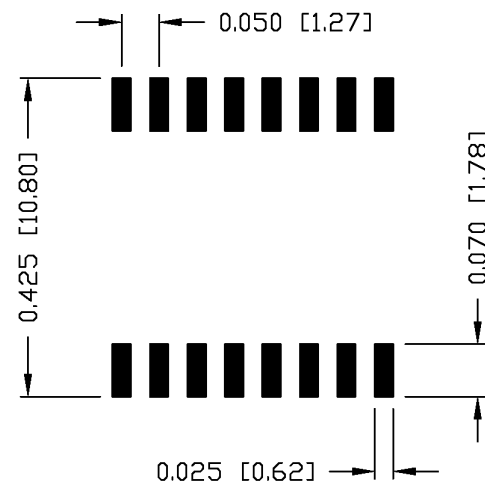
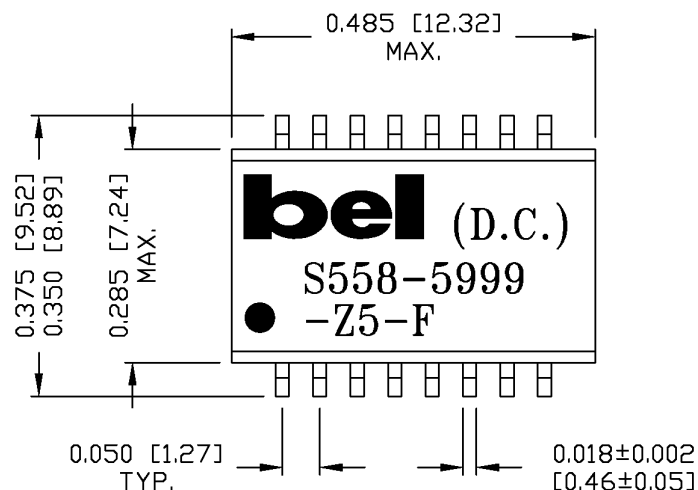
ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS REFERENCE
HO	04-27-06	10/100BT MAGNETICS MODULE	X5585999Z5-F	TOL. IN INCH	UNIT : INCH [mm] REV. : A
DRAWN BY	DATE	S558-5999-Z5-F	FILE NAME	.X	SCALE : N/A SIZE : A4
DQ Chen	04-27-06		X5585999Z5F.DWG	.XX	⊕
				.XXX	PAGE : 2



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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.	[] METRIC DIM. AS REFERENCE	
HQ	04-27-06	MECHANICAL DRAWING	X5585999Z5-F	TOL. IN INCH	UNIT : INCH [mm]	REV. : A
DRAWN BY	DATE	S558-5999-Z5-F	FILE NAME	.X	SCALE : N/A	SIZE : A4
DQ Chen	04-27-06		X5585999Z5FA.DWG	.XX ±0.01		PAGE : 3
				.XXX ±0.005		



Mouser Electronics

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