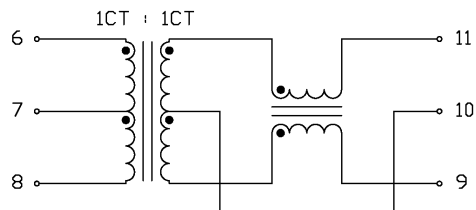
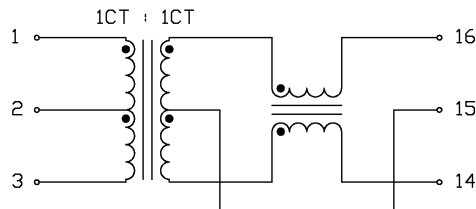


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# ELECTRICAL CHARACTERISTICS @ 25°C



## 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

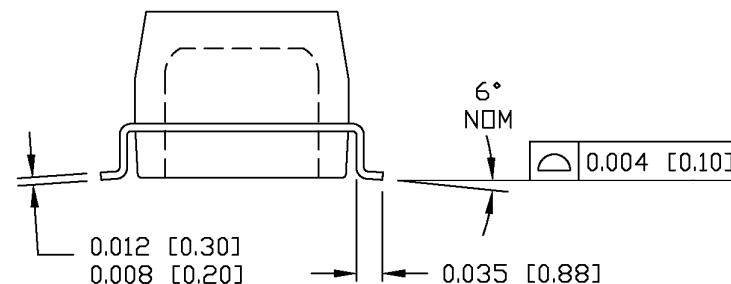
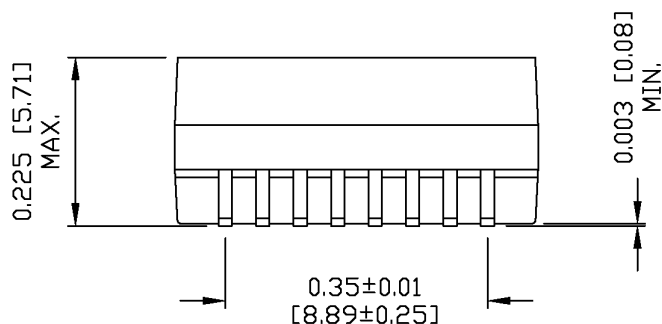
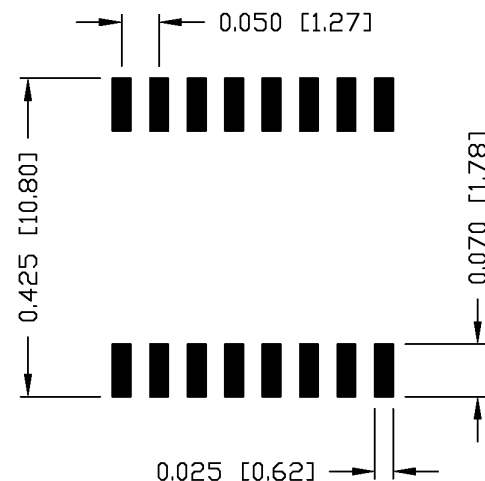
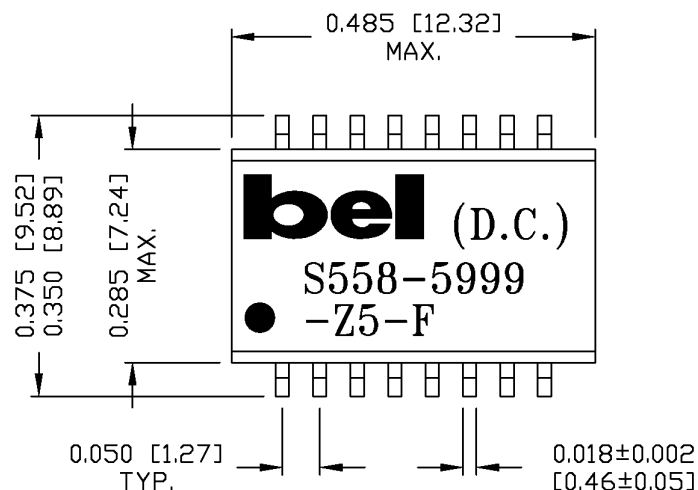
| ORIGINATED BY | DATE     | TITLE                     | PART NO. / DRAWING NO. | STANDARD DIM. | [ ] METRIC DIM. AS REFERENCE |
|---------------|----------|---------------------------|------------------------|---------------|------------------------------|
| HO            | 04-27-06 | 10/100BT MAGNETICS MODULE | X5585999Z5-F           | TOL. IN INCH  | UNIT : INCH [mm]             |
| DRAWN BY      | DATE     | S558-5999-Z5-F            | FILE NAME              | .X            | SCALE : N/A                  |
| DQ Chen       | 04-27-06 |                           | X5585999Z5F.DWG        | .XX           | SIZE : A4                    |
|               |          |                           |                        | .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<br>S558-5999-Z5-F | X5585999Z5-F           | TOL. IN INCH             | UNIT : INCH [mm]             | REV. : A  |
| DRAWN BY      | DATE     |                                      | FILE NAME              | .X                       | SCALE : N/A                  | SIZE : A4 |
| DQ Chen       | 04-27-06 |                                      | X5585999Z5FA.DWG       | .XX ±0.01<br>.XXX ±0.005 | ⊕                            | PAGE : 3  |

