

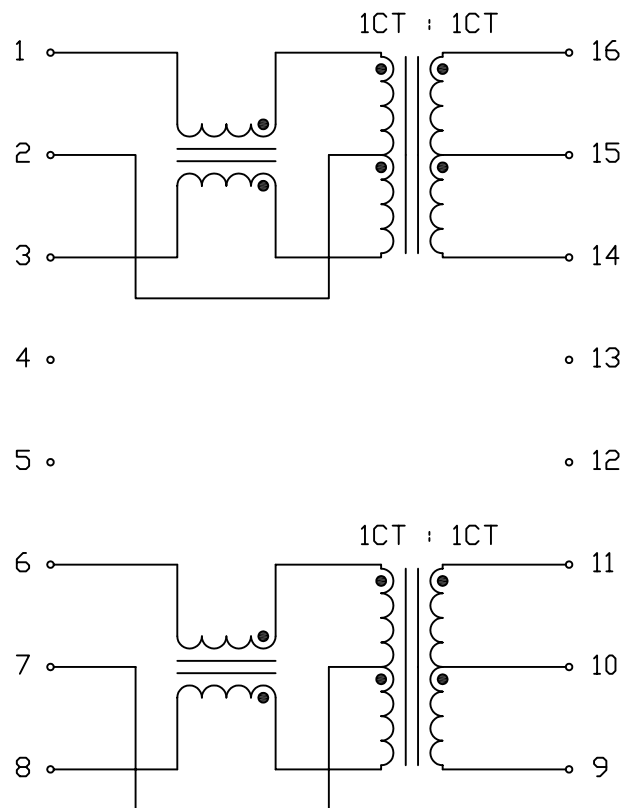
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## ELECTRICAL CHARACTERISTICS @25°C

RoHS



### SCHEMATIC



#### URNS RATIO

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

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

1CT : 1CT

1CT : 1CT

#### POLARITY

□CL (-40°C TO +85°C OPERATING TEMP)

TX (16-14)

RX (11-9)

PER DOT CONVENTION

350μH MIN

@100kHz, 100mV

WITH 8mA DC BIAS

#### LEAKAGE INDUCTANCE, Le

TX (16-14) WITH 1-3 SHORTED

RX (11-9) WITH 6-8 SHORTED

0.35μH MAX

@1MHz 20mV

#### INTERWINDING CAPACITANCE, Cw/w

TX (1-3 TO 16-14)

RX (6-8 TO 11-9)

30pF MAX

@1MHz 20mV

#### DC RESISTANCE

(1-3) = (6-8)

(16-14) = (11-9)

2.0ΩHM MAX

1.0ΩHM MAX

#### INSERTION LOSS

@100kHz TO 100MHz

1.0dB MAX

#### RETURN LOSS (UNDER 100ΩHM ±15% ENVIRONMENT)

@100kHz TO 30MHz

@30 TO 60MHz

@60 TO 80MHz

18dB MIN

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

12dB MIN

#### COMMON TO COMMON MODE ATTENUATION

@0.1 TO 100MHz

30dB MIN

#### CROSSTALK

@1MHz

@30MHz

@60MHz

@100MHz

65dB MIN

55dB MIN

45dB MIN

35dB MIN

#### COMMON TO DIFFERENTIAL MODE ATTENUATION

@0.1 TO 100MHz

40dB MIN

#### HIPOT

1500Vrms

REV. : E

PAGE : 2

| ORIGINATED BY | DATE       |
|---------------|------------|
| Alice Pang    | 2015-01-26 |
| DRAWN BY      | DATE       |
| ZC Guo        | 2015-01-26 |

| TITLE                     |
|---------------------------|
| 10/100BT MAGNETICS MODULE |
| S558-5999-T5-F            |

| PART NO. / DRAWING NO. |
|------------------------|
| X5585999T5-F           |
| FILE NAME              |
| X5585999T5FE.DWG       |

| STANDARD DIM. | [ ] METRIC DIM. AS REF. |
|---------------|-------------------------|
| TOL. IN INCH  | UNIT : INCH [mm]        |
| .X            | SCALE : N/A             |
| .XX           | SIZE : A4               |
| .XXX          |                         |

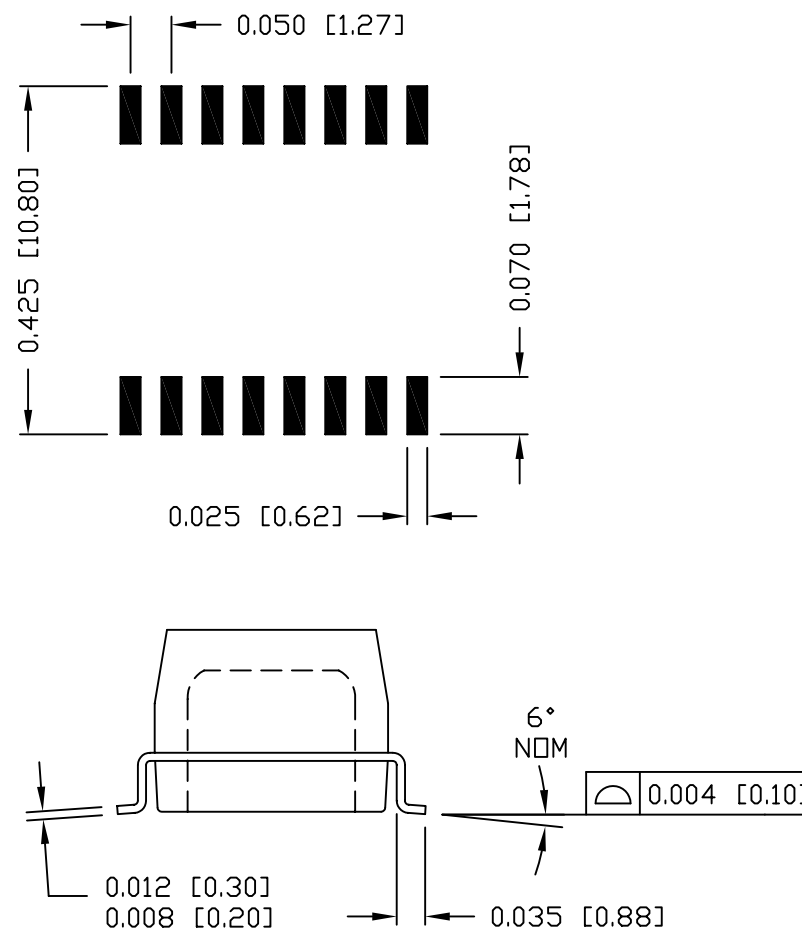
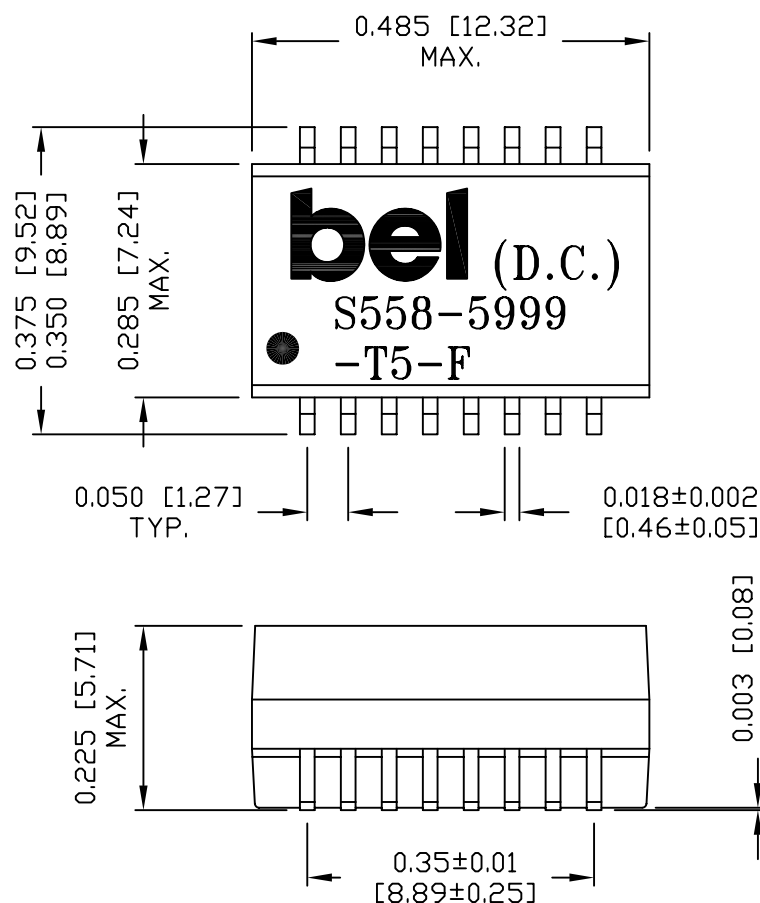


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# SUGGESTED PCB PAD LAYOUT



## NOTES:

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

REV. : E PAGE : 3

| ORIGINATED BY  | DATE       | TITLE                                | PART NO. / DRAWING NO. | STANDARD DIM. | [ ] METRIC DIM. AS REF. |
|----------------|------------|--------------------------------------|------------------------|---------------|-------------------------|
| Lawrence Tsang | 2015-01-26 | MECHANICAL DRAWING<br>S558-5999-T5-F | X5585999T5-F           | TOL. IN INCH  | UNIT : INCH [mm]        |
| DRAWN BY       | DATE       |                                      | FILE NAME              | .X            | SCALE : N/A             |
| ZC Guo         | 2015-01-26 |                                      | X5585999T5FE.DWG       | .XX ±0.01     | SIZE : A4               |
|                |            |                                      |                        | .XXX ±0.005   |                         |

