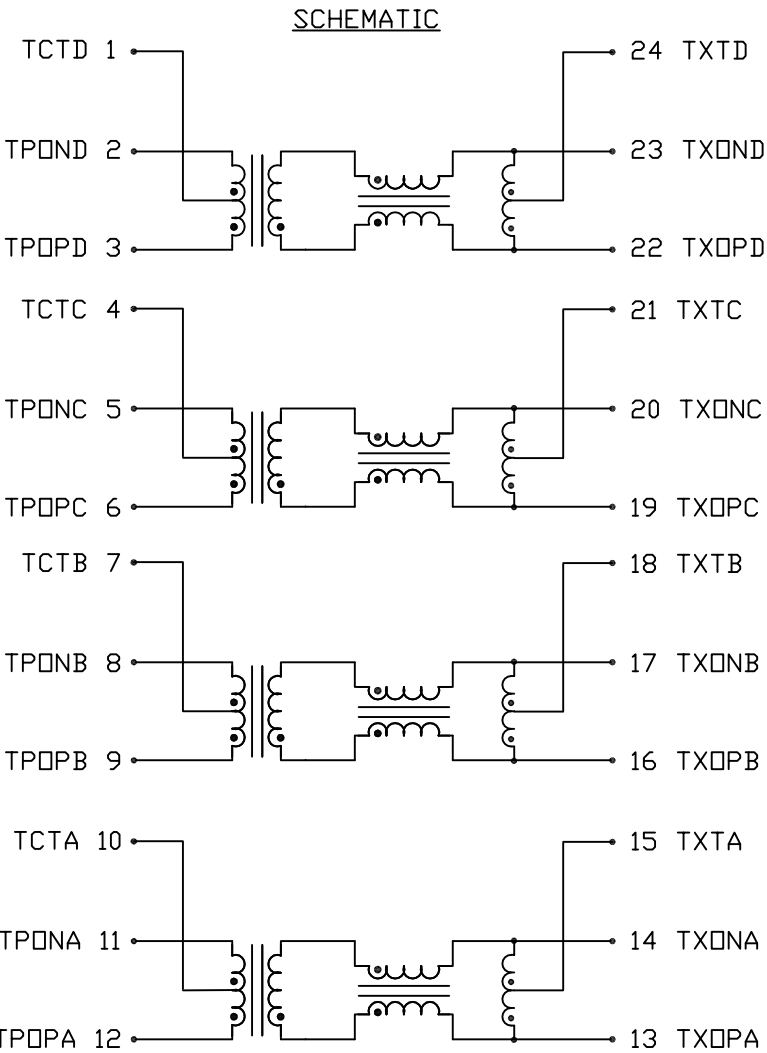


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ELECTRICAL CHARACTERISTICS

URNS RATIO

|                            |           |
|----------------------------|-----------|
| PIN(3-1-2) : (22-24-23)    | 1CT : 1CT |
| PIN(6-4-5) : (19-21-20)    | 1CT : 1CT |
| PIN(9-7-8) : (16-18-17)    | 1CT : 1CT |
| PIN(12-10-11) : (13-15-14) | 1CT : 1CT |

□CL  
-40°C TO +85°C

350μH MIN. AT 100kHz, 100mV  
WITH 8mA DC BIAS

INSERTION LOSS

1.1dB MAX. @ 0.1 MHz  
0.5dB MAX. @ 1 MHz  
0.8dB MAX. @ 65 MHz  
1.0dB MAX. @ 100 MHz  
1.5dB MAX. @ 125 MHz

RETURN LOSS  
UNDER 100 □HMS  
±15% ENVIRONMENT

18dB MIN. @ 0.5 TO 40 MHz  
12-20LOG (f/80 MHz) dBMIN.  
@ 40 TO 100 MHz

COMMON TO COMMON REJECTION 30dB MIN. @ 0.1 TO 100 MHz

CROSSTALK

@ 1-100 MHz  
33-20LOG (f/100 MHz) dB MIN.

HIPOT

LEAKAGE CURRENT LESS THAN 1mA AT 1500VAC

| ORIGINATED BY | DATE       | TITLE                                         | PART NO. / DRAWING NO. | STANDARD DIM. | [ ] METRIC DIM. AS REF. | REV. : | PAGE : |
|---------------|------------|-----------------------------------------------|------------------------|---------------|-------------------------|--------|--------|
| Alice Pang    | 2021-01-27 | 1000BASE-T MAGNETIC MODULES<br>S558-5999-AT-F | S558-5999-AT-F         | TOL. IN INCH  | UNIT : INCH [mm]        | A      | 2      |
| DRAWN BY      | DATE       |                                               | FILE NAME              | .X            | SCALE : N/A             |        |        |
| ZC Guo        | 2021-01-27 |                                               | S5585999ATFA.DWG       | .XX           |                         |        |        |
|               |            |                                               |                        | .XXX          | SIZE : A4               |        |        |

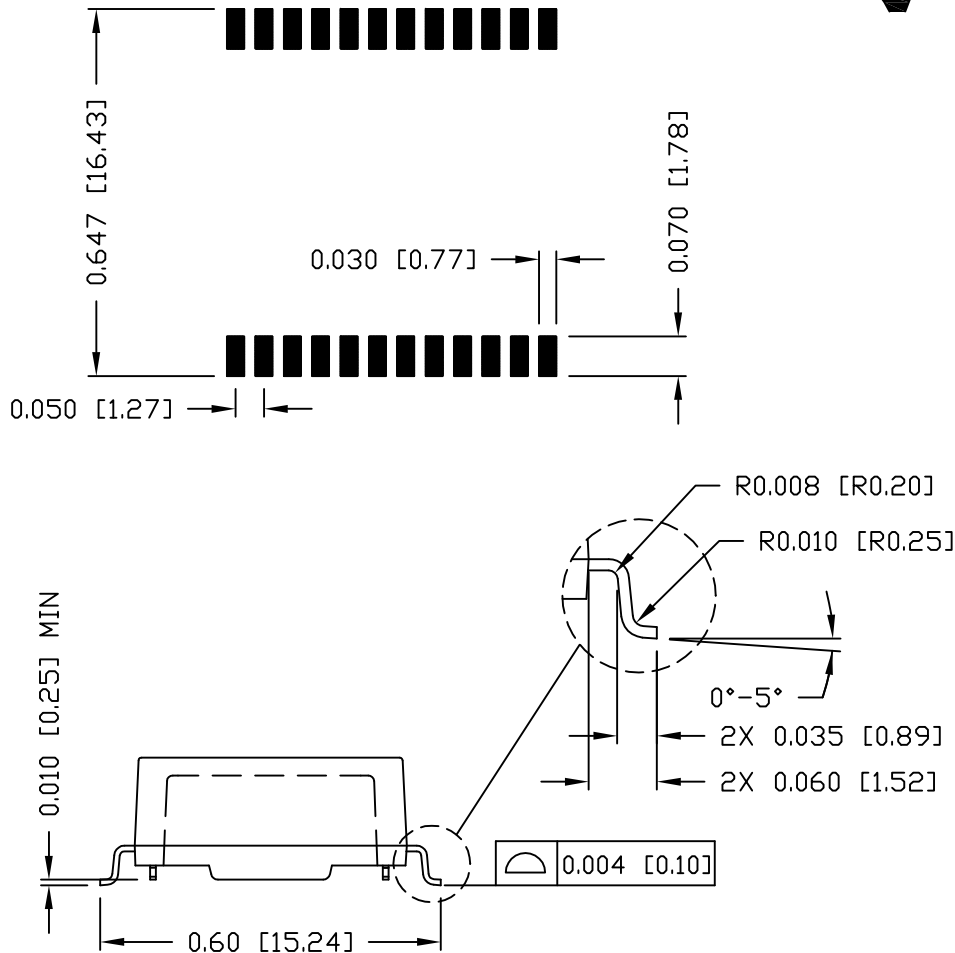
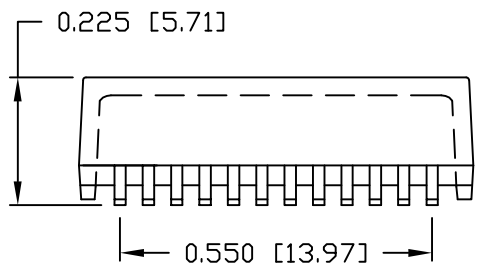
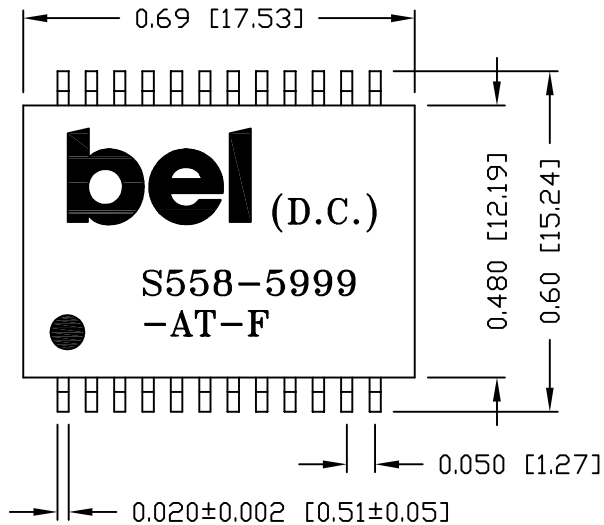


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RoHS



SUGGESTED PCB PAD LAYOUT



NOTES:

1. STANDARD MARKING REFER TO DOC. HAND-WORK-04.
2. PACKAGE CODE: "RQS001".

| ORIGINATED BY  |  | DATE       | TITLE                                | PART NO. / DRAWING NO. | STANDARD DIM. | [ ] METRIC DIM. AS REF. |  | REV. : A | PAGE : 3 |
|----------------|--|------------|--------------------------------------|------------------------|---------------|-------------------------|--|----------|----------|
| Lawrence Tsang |  | 2021-01-27 | MECHANICAL DRAWING<br>S558-5999-AT-F | S558-5999-AT-F         | TOL. IN INCH  | UNIT : INCH [mm]        |  |          |          |
| DRAWN BY       |  | DATE       |                                      | FILE NAME              | .X            | SCALE : N/A             |  |          |          |
| ZC Guo         |  | 2021-01-27 |                                      | S5585999ATFA.DWG       | .XX ±0.01     | SIZE : A4               |  |          |          |
|                |  |            |                                      |                        | .XXX ±0.005   |                         |  |          |          |

