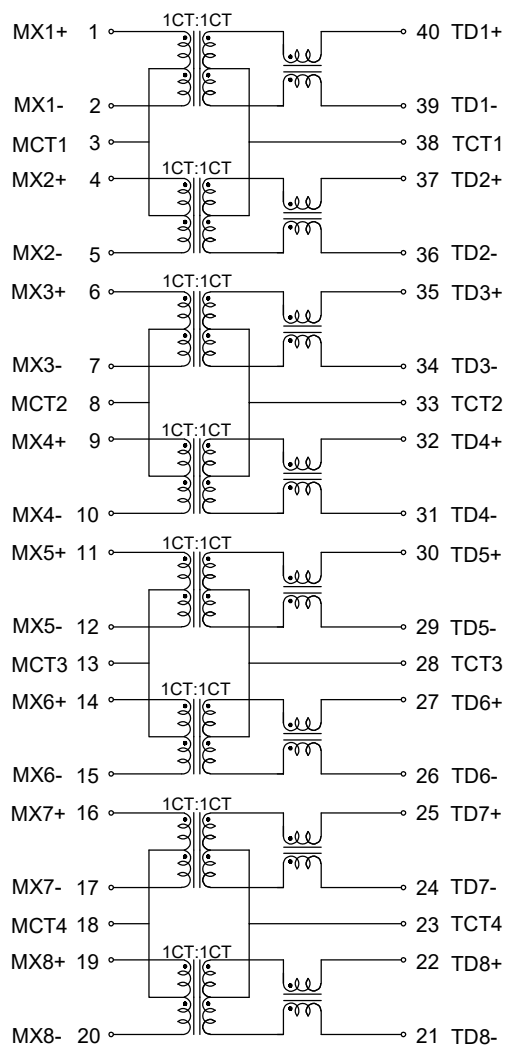


ELECTRICAL SPECEIFICATIONS @25°C



SCHEMATIC



URNS RATIO

1CT : 1CT

PHASE

1 TO 40, 4 TO 37,
6 TO 35, 9 TO 32,
11 TO 30, 14 TO 27,
16 TO 25, 19 TO 22 IN PHASE

CL

(1-2), (4-5), (6-7), (9-10) 350uH MIN. AT 100kHz, 100mV
(11-12), (14-15), (16-17), (19-20) WITH 8mA DC BIAS,

D.C.R

(40-39), (37-36), (35-34), (32-31) 1.2OHM Max
(30-29), (27-26), (25-24), (22-21)

INSERTION LOSS

-1.0dB MAX. @ 1 TO 100MHz
-2.0dB MAX. @ 125MHz

RETURN LOSS

MEASURED UNDER A 100 Ω I/O

-18dB MIN. @ 1-30MHz
-13.1dB MIN. @ 60MHz
-12dB MIN. @ 80MHz
-10dB MIN. @ 100MHz

CROSSTALK

-30dB MIN. AT 10 TO 100 MHz

COMMON TO COMMON REJECTION

-30dB MIN. AT 100kHz TO 100MHz

HIPOT

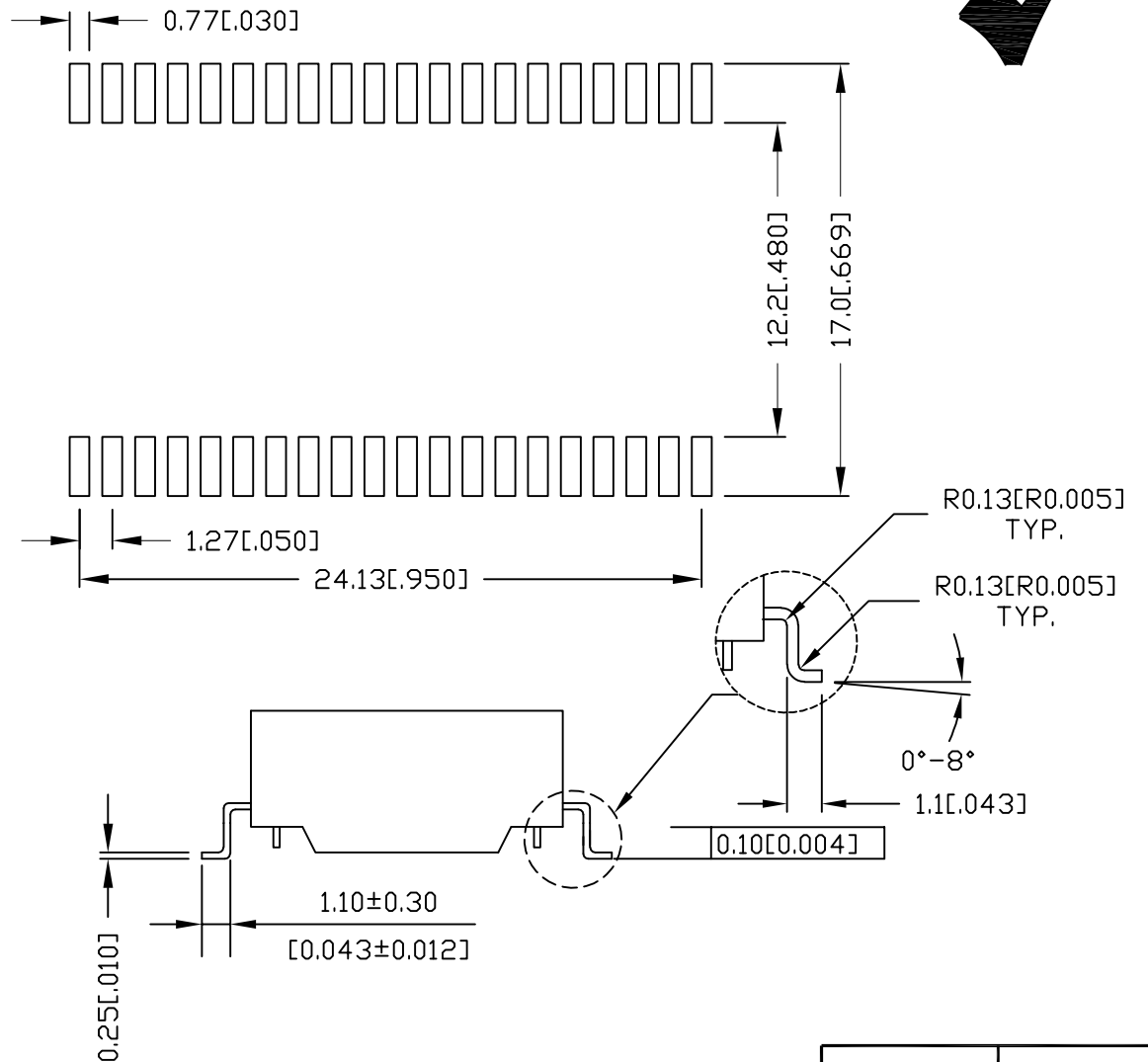
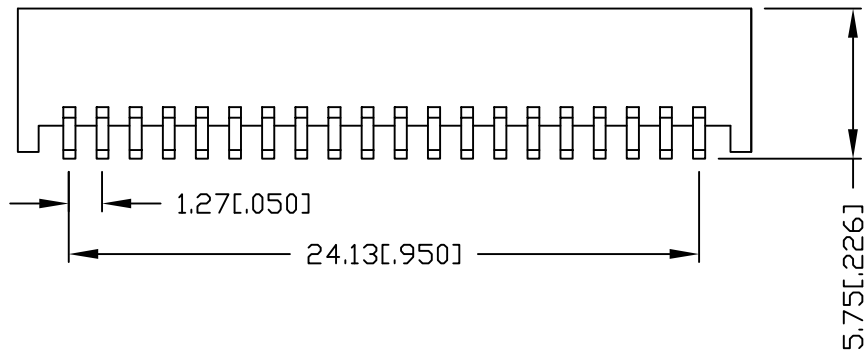
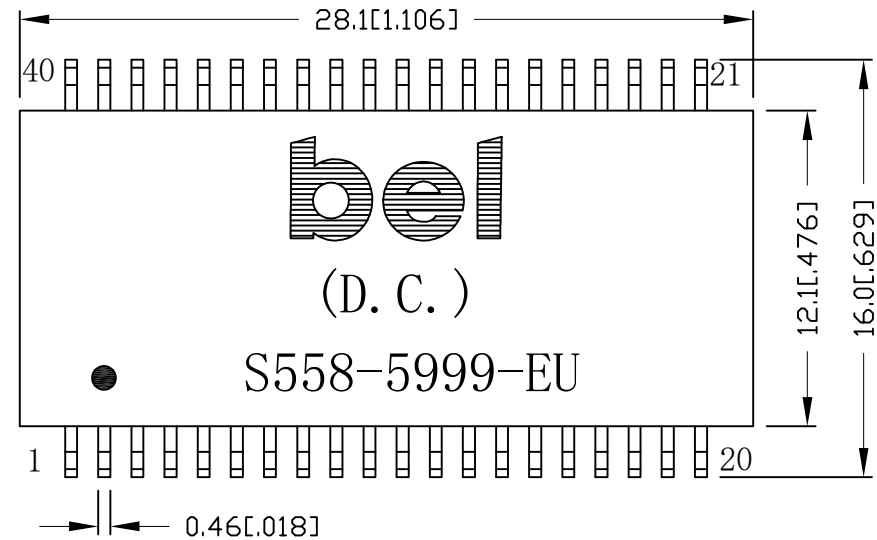
LEAKAGE CURRENT LESS THAN 1mA AT 1500VAC

Applicable Operating temp

0°C~+70°C

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WRITTEN APPROVAL OF BEL FUSE INC.

SUGGESTED PCB PAD LAYOUT



ORIGINATED BY DATE

yan bin zhang 2025-8-19

DRAWN BY DATE

ya chen zhou 2025-8-19

TITLE

Mechanical specification
100BASE-T module

PART NO. / DRAWING NO.

S558-5999-EU

FILE NAME

S558-5999-EU_A.DWG

STANDARD DIM.

TOL. IN INCH

.X

.XX ±0.01

.XXX ±0.005

[] METRIC DIM. AS REF.

UNIT : mm[INCH]

SCALE : N/A

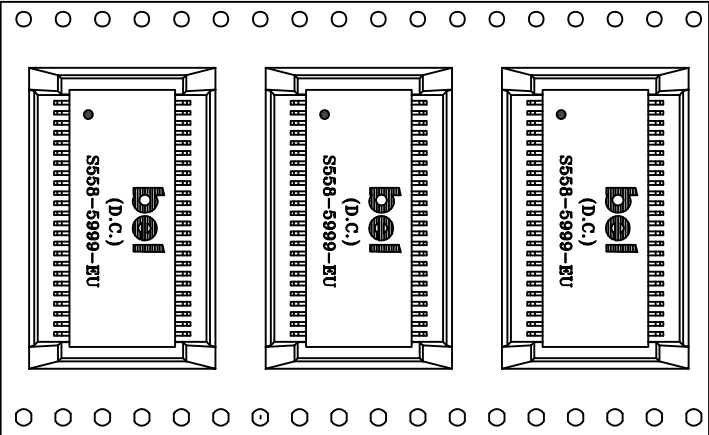
SIZE : A4

REV. : A/2

PAGE : 2



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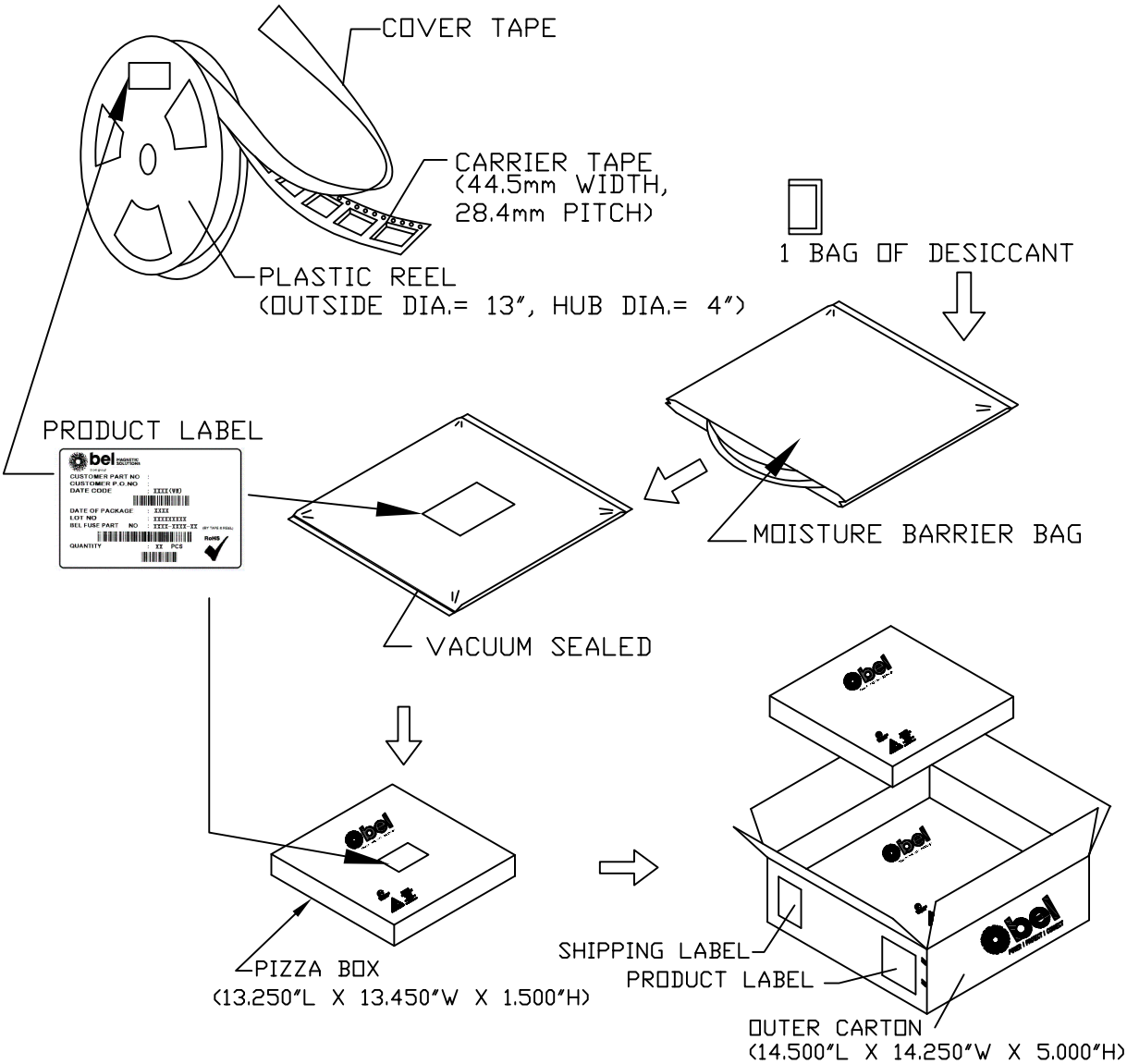
USER FEED DIRECTION

ORIENTATION OF COMPONENT INSIDE POCKET

TAPE WIDTH	44.5MM
POCKET PITCH	28.4MM
QUANTITY OF COMPONENTS PER REEL	450
PLASTIC REEL OUTER DIAMETER	13 INCHES
PLASTIC REEL HUB DIAMETER	4 INCHES
COMPLY WITH EIA-481-E	

NOTES:

- 1. HUMIDITY SENSITIVITY LEVEL:FOR PRODUCTS ACCORDING TO MSL1 CONTROL.
- 2. 2 Reels per carton.



ORIGINATED BY	DATE	TITLE PACKING SPECIFICATION FOR S558-5999-EU	PART NO. / DRAWING NO. S558-5999-EU		STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REF.	
DRAWN BY	DATE		FILE NAME S558-5999-EU_A.DWG		.X		UNIT : mm [INCH]	
yan bing zhang	2025-8-19				.XX		SCALE : N/A	
ya cheng zhou	2025-8-19				.XXX		SIZE : A4	

REV. : A/2

PAGE : 3


POWER | PROTECT | CONNECT