

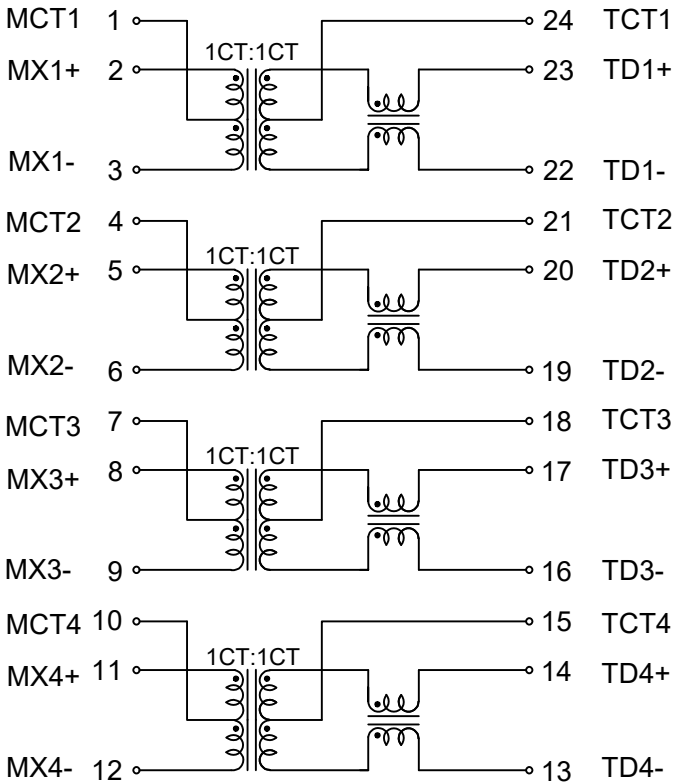
ELECTRICAL SPECEIFICATIONS @25°C



SCHEMATIC

Cable Side

Phy Side



URNS RATIO

1CT : 1CT

PHASE

2 TO 23, 5 TO 20,
8 TO 17, 11 TO 14 IN PHASE

CL

(2-3), (5-6), (8-9), (11-12)

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

D.C.R

(23-22), (20-19), (17-16), (14-13) 1.2OHM Max

INSERTION LOSS

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

RETURN LOSS

MEASURED UNDER A 100 OHM 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

PoE

Suitable for End-span PoE applications
with 350mA current capability

Applicable Operating temp

-40°C~+85°C

ORIGINATED BY	DATE
yan bin zhang	2025-8-19
DRAWN BY	DATE
ya chen zhou	2025-8-19

TITLE
Electrical specification
1000BASE-T module

PART NO. / DRAWING NO.
S558-5999-EN
FILE NAME
S558-5999-EN_A.DWG

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

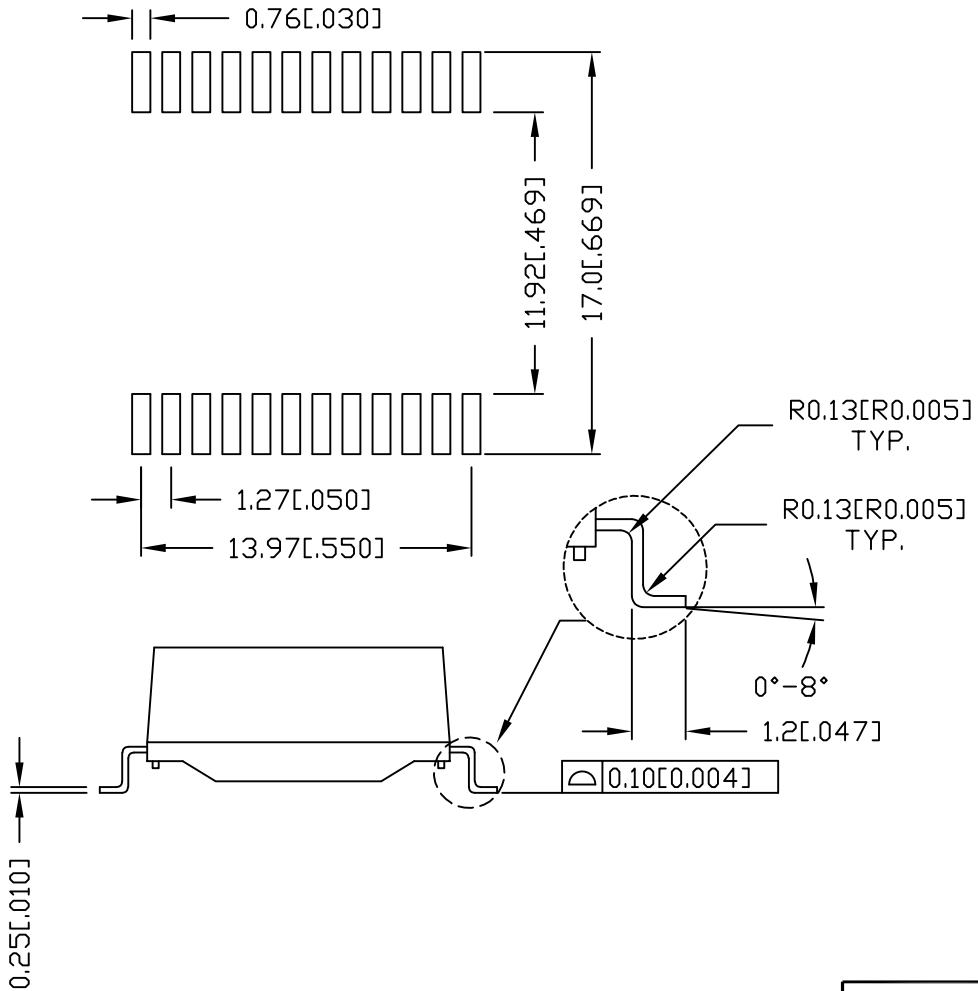
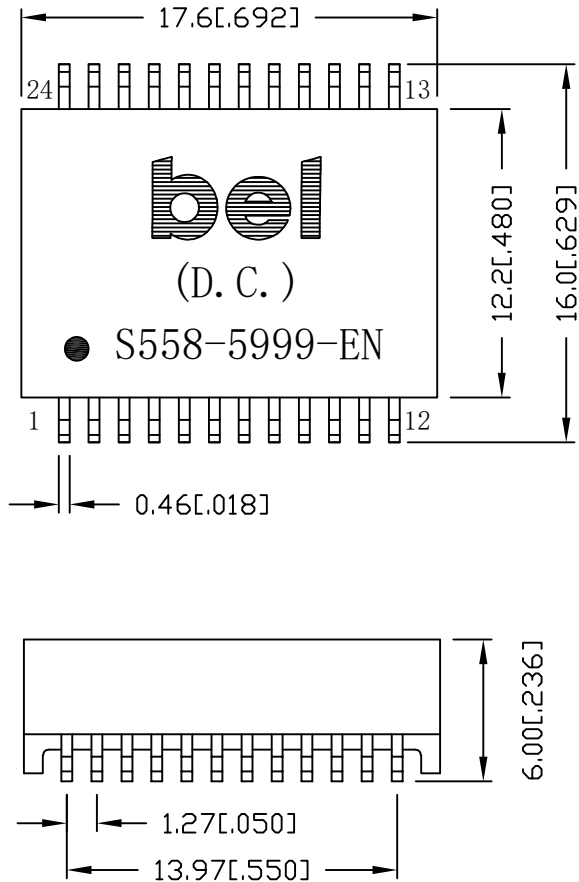
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POWER | PROTECT | CONNECT

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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
1000BASE-T module

PART NO. / DRAWING NO.

S558-5999-EN

FILE NAME

S558-5999-EN_A.DWG

STANDARD DIM.

TOL. IN INCH

.X /

.XX ±0.01

.XXX ±0.005

[] METRIC DIM. AS REF.

UNIT : mm[INCH]

SCALE : N/A



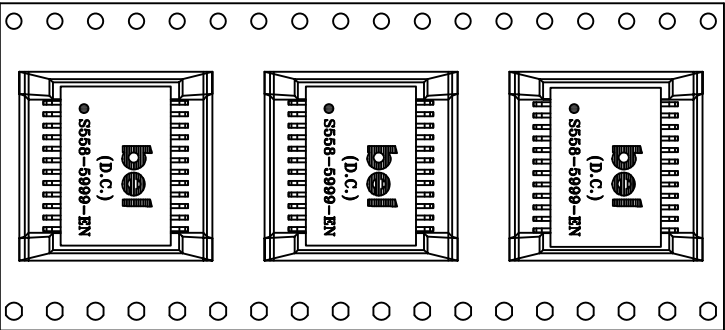
SIZE : A4

REV. : A/2

PAGE : 2



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USER FEED DIRECTION

ORIENTATION OF COMPONENT INSIDE POCKET

TAPE WIDTH	32.5MM
POCKET PITCH	18MM
QUANTITY OF COMPONENTS PER REEL	400
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-EN	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REF.	
yan bing zhang	2025-8-19		S558-5999-EN	TOL. IN INCH		UNIT : mm [INCH]	
DRAWN BY	DATE		FILE NAME	.X		SCALE : N/A	
ya cheng zhou	2025-8-19		S558-5999-EN_A.DWG	.XX		SIZE : A4	
		.XXX					

REV. : A/2PAGE : 3


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