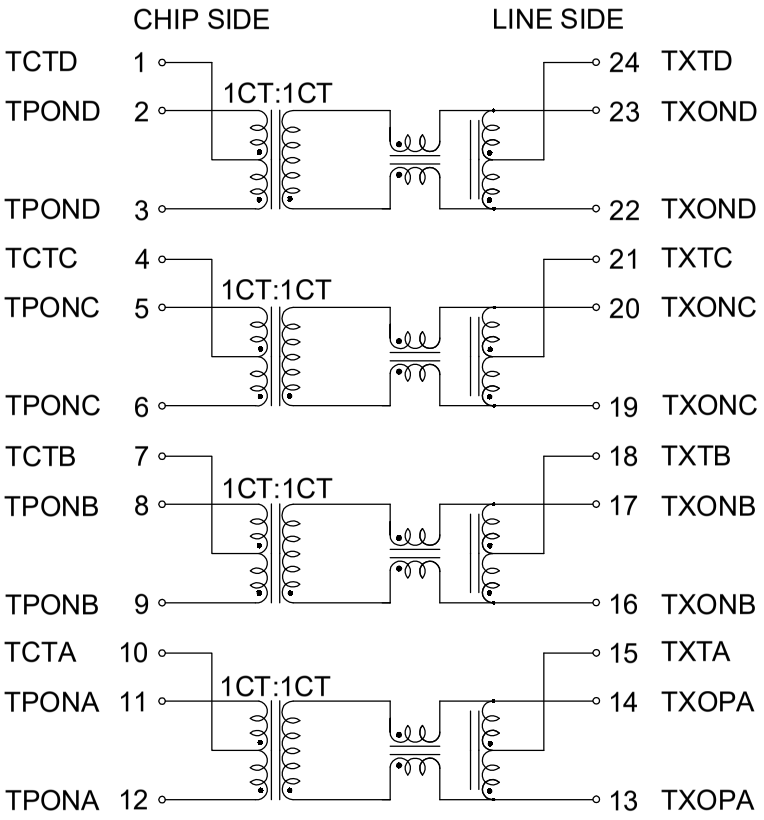
SCHEMATIC



ELECTRICAL SPECEIFICATIONS @25°C

RoHS

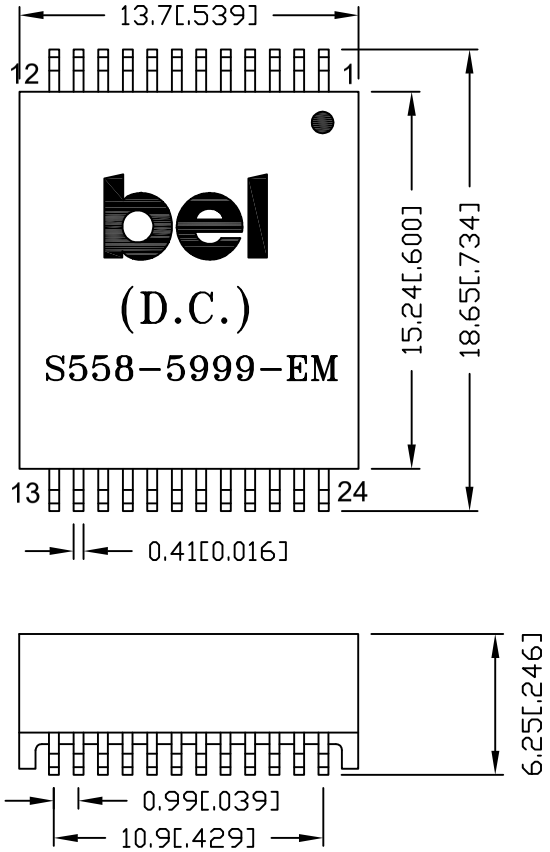
TURNS RATIO	1CT : 1CT
PHASE	2 TO 23, 5 TO 20, 8 TO 17, 11 TO 14 IN PHASE
OCL (2-3), (5-6), (8-9), (11-12)	350uH MIN. AT 100kHz, 100mV WITH 8mA DC BIAS, (0-70℃)
D.C.R (22-23), (19-20), (16-17), (13-14)	1.2OHM Max
INSERTION LOSS	-1.0dB MAX. @ 1 TO 100MHz -2.0dB MAX. @ 125MHz
RETURN LOSS MEASURED UNDER A 100Ω 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	-40℃~+85℃

REV. : A | PAGE : 2

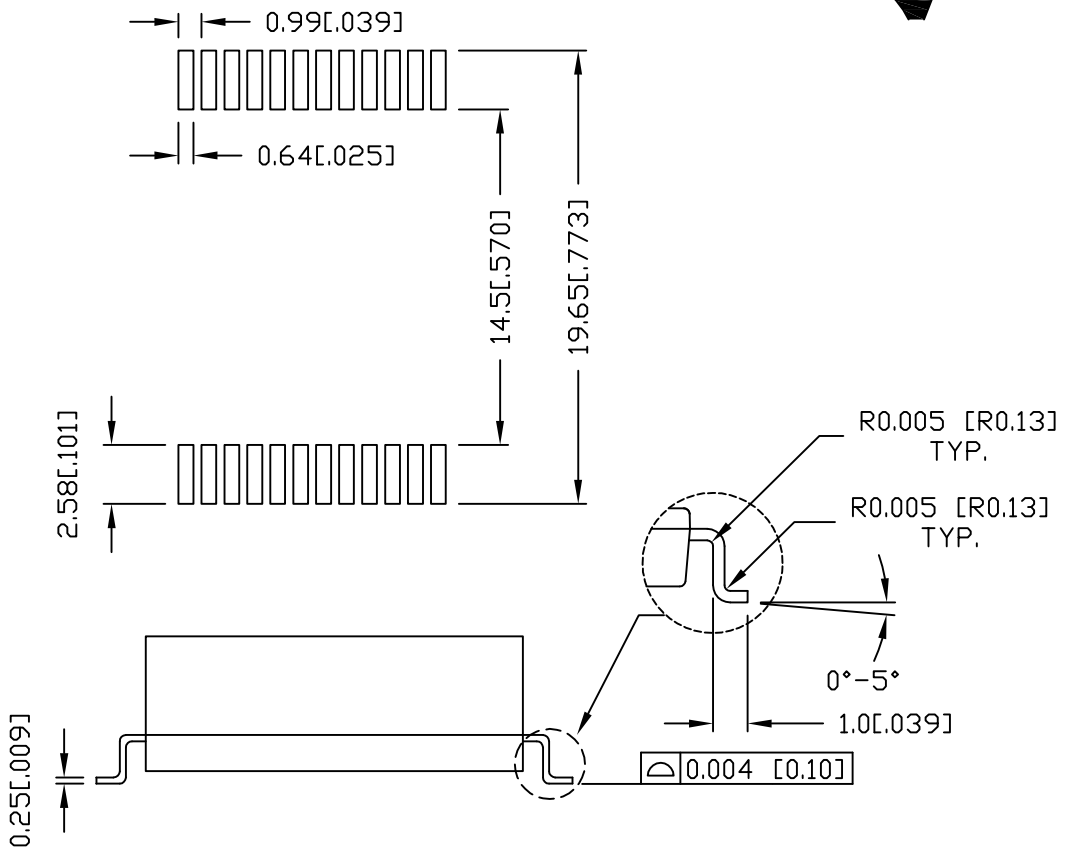
ORIGINATED BY: yan bin zhang	DATE: 2025-3-7	TITLE: Electrical specification 1000BASE-T module	PART NO. / DRAWING NO.: S558-5999-EM	STANDARD DIM. TOL. IN INCH: .X / .XX / .XXX	[ ] METRIC DIM. AS REF.
DRAWN BY: ya chen zhou	DATE: 2025-3-7		FILE NAME: S558-5999-EM_A.DWG		UNIT : INCH [mm]
					SCALE : N/A
					SIZE : A4

bel POWER | PROTECT | CONNECT

RoHS



SUGGESTED PCB PAD LAYOUT



						REV. : A	PAGE : 3
ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[ ] METRIC DIM. AS REF.		
yan bin zhang	2025-3-7	Mechanical specification 1000BASE-T module	S558-5999-EM	TOL. IN INCH	UNIT : mm[INCH]		
DRAWN BY	DATE		FILE NAME	.X	SCALE : N/A		
ya chen zhou	2025-3-7		S558-5999-EM_A.DWG	.XX ±0.01 .XXX ±0.005	SIZE : A4		

POWER | PROTECT | CONNECT