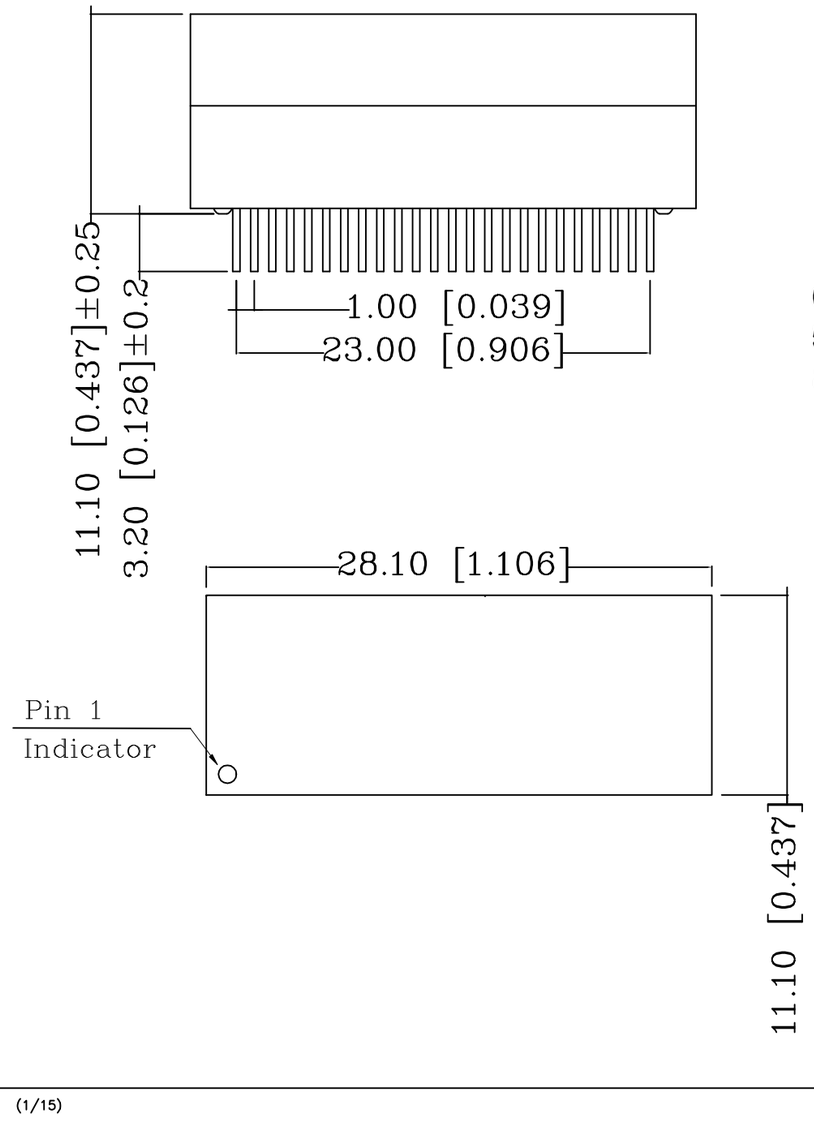
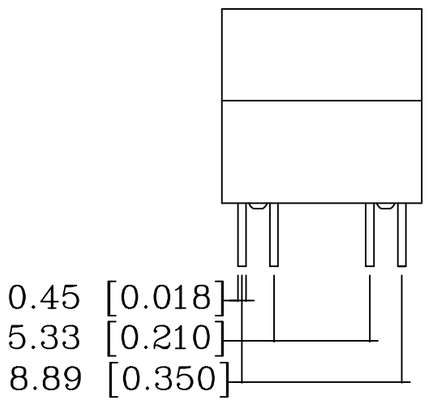
REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	A1	NEW RELEASE	20DEC2018	GCM	JDB

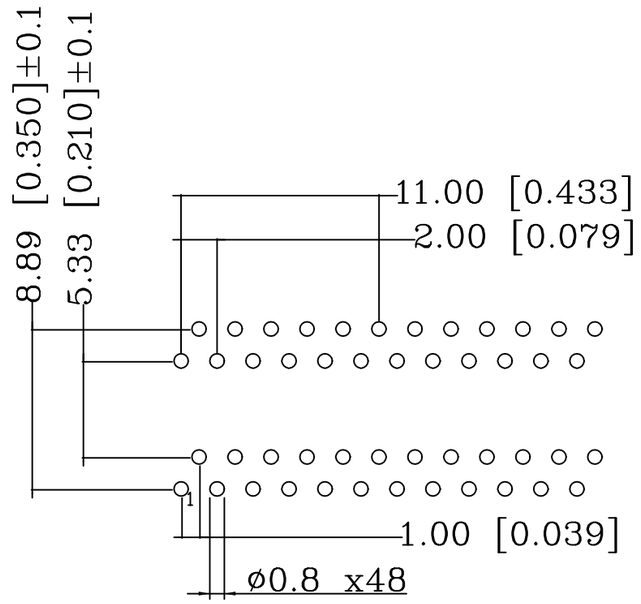
⚠ Material:
COVER : Black PF2A5-151J, UL-94-V0
HEADER : Black PF2A5-151J, UL-94-V0
SOLDER PIN: CP WIRE
SOLDER PIN PLATING: 4 μm (157 μinch) MIN. 100% TIN,
8 μm (315 μinch) MIN. COPPER OVER ALL

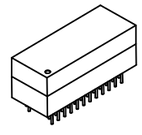
2 THE PART IS RECOMMENDED FOR WAVE SOLDERING PROCESS
SOLDERING: TEMPERATURE +260 ±5 °C, 10 ±1 s
3 OPERATING TEMPERATURE: T= -40 °C TO +85 °C
4 STORAGE TEMPERATURE: T= -40 °C TO +85 °C
5 DC CURRENT/VOLTAGE RATING-PSE PINS: 720mA @57V(CONTINUOUS)
6 MEET IEEE 802.3at REQUIRMENT
⚠ UNLESS OTHERWISE SPECIFIED, SEE TABLE FOR ALL DIMENSIONS TOLERANCES
8 PACKAGING: TUBE ACCORDING TO PACKAGING SPECIFICATION 107-18128





SUGGESTED PCB LAYOUT





1:1

⚠7 TABLE OF TOLERANCE (mm)

RANGE	TOLERANCE
0–10	±0.15
>10–40	±0.25
>40–70	±0.30
>70	±0.40

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm [INCHES]

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ± –
1 PLC ± –
2 PLC ± –
3 PLC ± –
4 PLC ± –
ANGLES ± –
⚠7

MATERIAL ⚠1
FINISH ⚠1

DWN GANESH C M 20DEC2018
CHK A.C. NGOUMGANG 20DEC2018
APVD J. DE BRUIJN 20DEC2018
PRODUCT SPEC 108-94693
APPLICATION SPEC 114-94555
WEIGHT

TE Connectivity

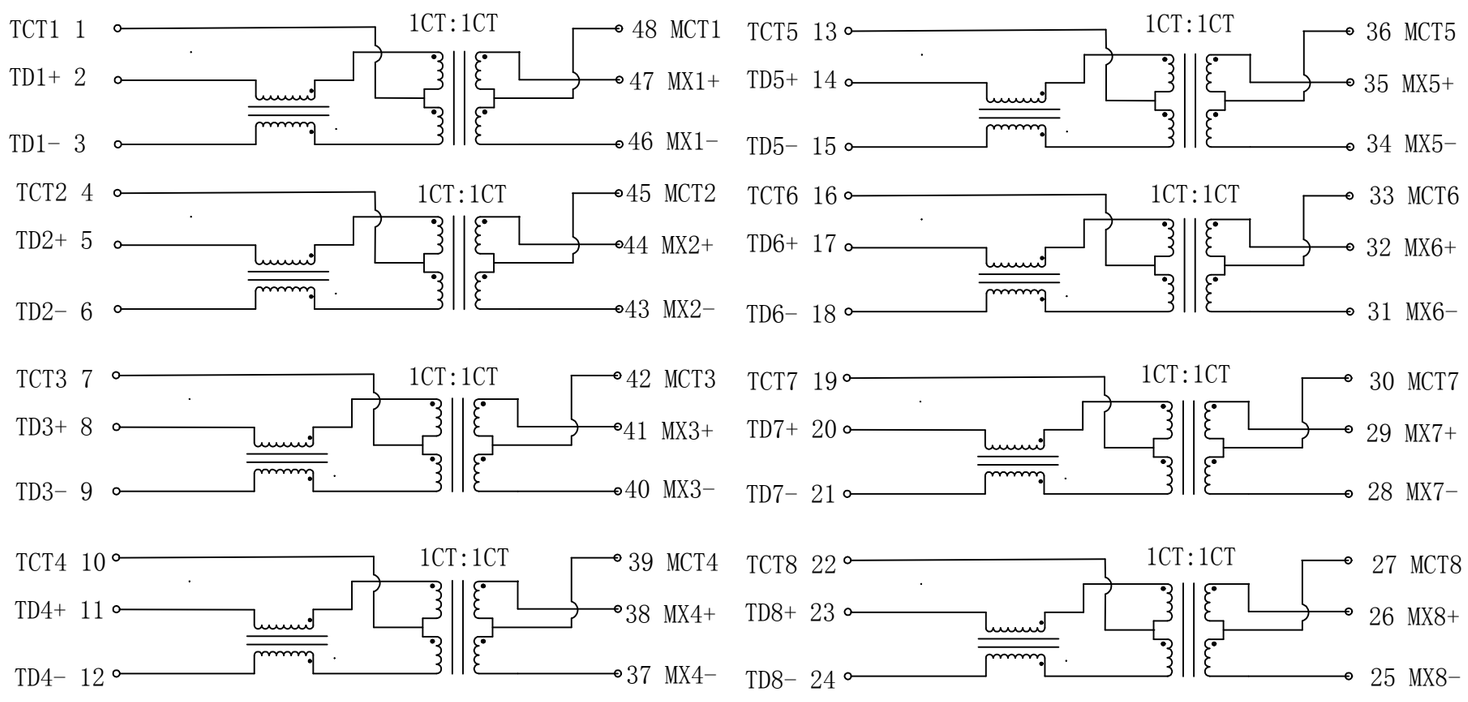
NAME DISCR.ETH.MAG. 1GB DUAL THT POE

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A3	00779	C-5-2337825-4	–

CUSTOMER DRAWING | SCALE 4:1 | SHEET 1 OF 2 | REV A1

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	–	SEE SHEET 1	–	–	–

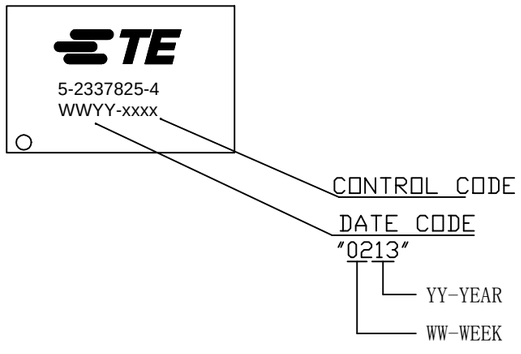
CIRCUIT DIAGRAM



Electrical Specifications @ 25 °C

(Unless other specified meet IEEE 802.3 Specification)

Turn Ratio	1CT:1CT ±2%	
Inductance (OCL) @100kHz/0.1V with 8mA DC Bias	350 µH min.	
Insertion Loss	0.1–100MHz	–1 dB max.
Return Loss (Zout = 100 OHMS)	1–30MHz	–18 dB min.
	40MHz	–14.4 dB min.
	50MHz	–13.1 dB min.
	80MHz	–12 dB min.
	100MHz	–10 dB min.
Crosstalk	30MHz	–40 dB min.
	60MHz	–35 dB min.
	100MHz	–30 dB min.
DCMR	30MHz	–40 dB min.
	60MHz	–35 dB min.
	100MHz	–30 dB min.
Isolation Voltage (Input – Output)	1500 Vrms	



THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm [INCHES]

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ± –
1 PLC ± –
2 PLC ± –
3 PLC ± –
4 PLC ± –
ANGLES ± –
7

MATERIAL 1

FINISH 1

DWN	GANESH C M 20DEC2018
CHK	A.C. NGOUMGANG 20DEC2018
APVD	J. DE BRUIJN 20DEC2018
PRODUCT SPEC	108–94693
APPLICATION SPEC	114–94555
WEIGHT	

TE Connectivity

NAME: DISCR.ETH.MAG. 1GB DUAL THT POE

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A3	00779	C-5-2337825-4	–

CUSTOMER DRAWING | SCALE 4:1 | SHEET 2 OF 2 | REV A1