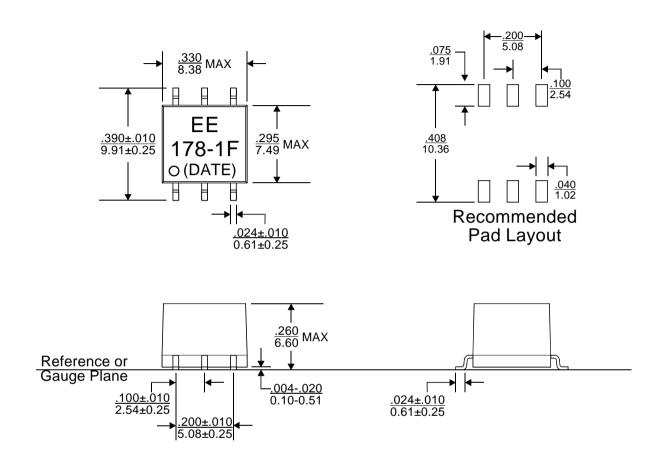
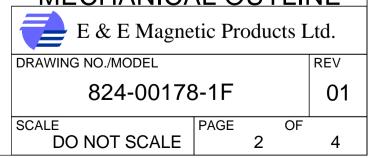
	REVISIONS							
REV.	DESCRIPTION	ECN NO.	DATE					
01	FIRST RELEASE	N/A	10/29/15					

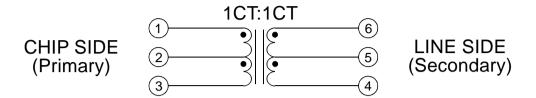
When ordering, please add suffix "T" to the part number for tape & reel packaging (330mm reel).					PAGE 4 IS FOR INTERNAL ONLY		
PART NUMBER PART DESCRIP			RIPTION		TRANSFORMER, 100BASE-T(PoE),		
824-00178-1F	RoHS compliant	per EU Directive 2011/65/E	U	_	HALF, SMD, 6 PIN		
WARNING! ALL SHEETS OF THIS DOCUMENT ARE		UNLESS OTHERWISE SPECIFIED, DIMENSIONS	APPROVALS	DATE	E & E Magnetic Products Ltd.		Ltd
		ARE IN INCH/mm.	PROJ. ENG	10/29/15	DRAWING NO./MODEL		REV
ARE NOT TO BE RI	DCUMENTATION AND RELEASED OUTSIDE SUB-CONTRACTORS RIZATION.	TOLERANCE ARE:	Y.L. YUNG APPROVED BY D. YUNG	10/29/15	824-00178-1F		01
WITHOUTAUTHORIZ		.XX ± .005 .XX ± .13	D. LUO	10/29/15	SCALE DO NOT SCALE	PAGE OF	4



- 1. Dimensions are specified in  $\frac{\text{inches}}{\text{mm}}$  with higher precedence in inches.
- 2. Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0.25}$ .
- 3. Coplanarity:  $\frac{.004}{0.10}$  max.
- 4. "(DATE)" includes at least the manufacturing date code(in YYWW format) plus two character country code.

## MECHANICAL OUTLINE





## **SCHEMATIC**

## ELECTRICAL SPECIFICATION @25°C:

PARAMETERS	UNIT	LIMITS	
Turn Ratio (Primary):(Secondary)	-	1CT:1CT ± 3%	
Polarity	-	Per Schematic	
Inductance, Ls(Primary) @100KHz, 0.02Vrms	uH	400 Min	
Inductance, Ls(Primary) @100KHz, 0.1Vrms, 8mADC	uH	350 Min	
Insertion Loss @1-100MHz	dB	0.5 Typ	
Insertion Loss @1-100MHz	dB	1.2 Max	
Return Loss @1-30MHz	dB	16.0 Min	
Return Loss @40MHz	dB	14.0 Min	
Return Loss @50MHz	dB	13.0 Min	
Return Loss @60-80MHz		12.0 Min	
LL (Primary), short (Secondary) @1MHz, 1.0Vrms	uН	0.4 Max	
Cww (Primary):(Secondary) @1MHz, 1.0Vrms		25 Max	
DCR (Primary)		0.55 Max	
DCR (Secondary)		0.55 Max	
Hipot (Primary):(Secondary)		1500 Min	

- 5. Operating temperature: 0°C to +70°C.
- 6. Balanced DC line current capability (LINE SIDE): 350mADC maximum.

