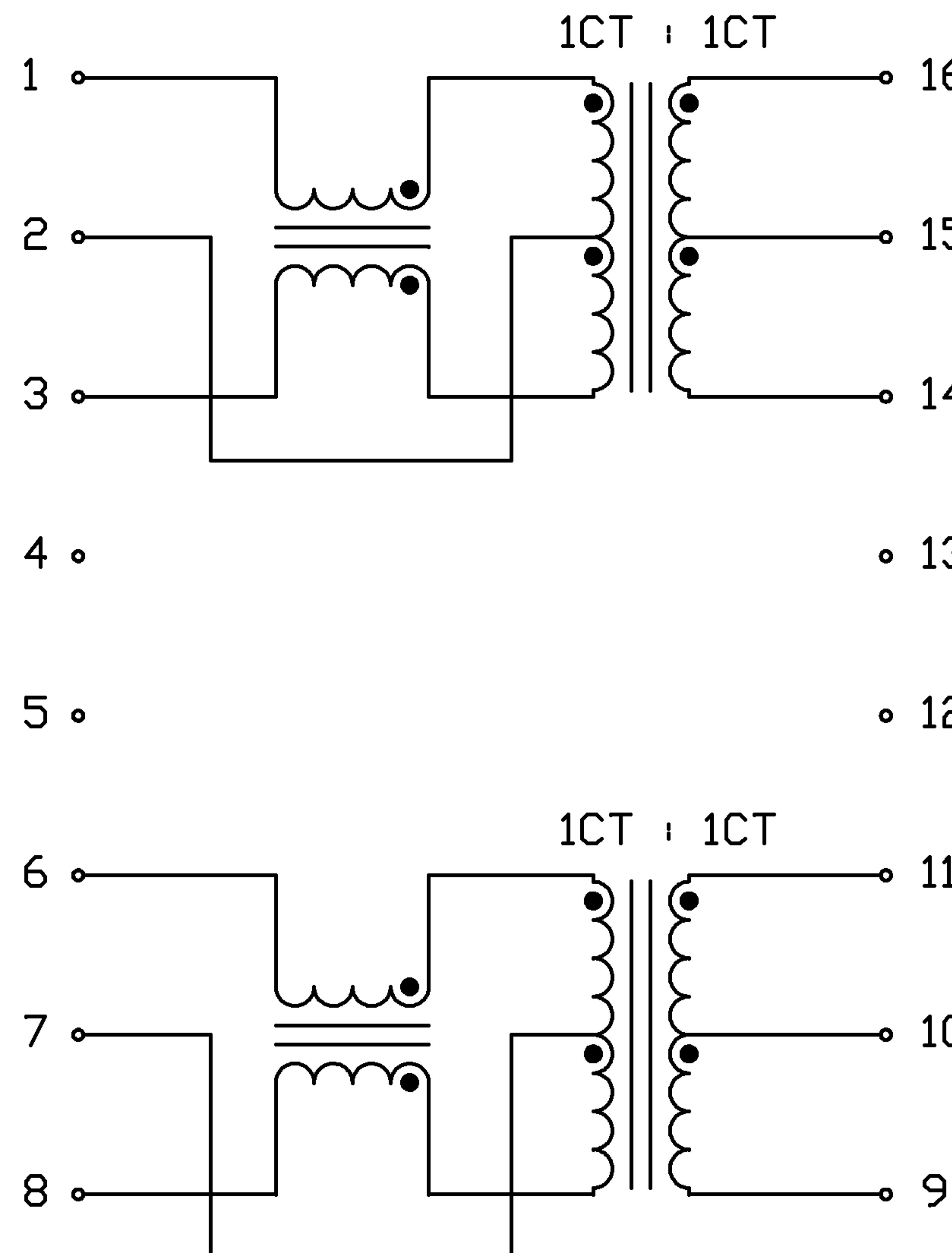


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ELECTRICAL CHARACTERISTICS @25°C

RoHS
2002/95/EC

SCHEMATIC



TRANSFORMER RATIO

T_x (1-2-3) : (16-15-14)
T_x (6-7-8) : (11-10-9)

1CT : 1CT
1CT : 1CT

PHASING

□CL (-40°C TO +85°C)
TX (16&14)
RX (11&9)

16 TO 1 ; 11 TO 6

350μH MIN.
@100kHz, 100mV
WITH 8mA DC BIAS

LEAKAGE INDUCTANCE, L_e (0°C - 70°C)
TX (16-14) WITH 1-3 SHORTED
RX (11-9) WITH 6-8 SHORTED

0.35μH MAX.
@1MHz 20mV

INTERWINDING CAPACITANCE, C_{w/w}
TX (1-3 TO 16-14)
RX (6-8 TO 11-9)

30pF MAX.
@1MHz 20mV

DCR WINDING RESISTANCE
(1-3) = (6-8)
(16-14) = (11-9)

2.0ΩHM MAX.
1.0ΩHM MAX.

INSERTION LOSS
@100kHz TO 100MHz

1.0dB MAX.

RETURN LOSS (UNDER 100ΩHM ±15% ENVIRONMENT)
@100kHz TO 30MHz
@30 TO 60MHz
@60 TO 80MHz

18dB MIN.
18-20LOG(F/30MHz) MIN.
12dB MIN.

COMMON TO COMMON MODE ATTENUATION
@0.1 TO 100MHz

30dB MIN.

CROSSTALK
@1MHz
@30MHz
@60MHz
@100MHz

65dB MIN.
55dB MIN.
45dB MIN.
35dB MIN.

COMMON TO DIFFERENTIAL MODE ATTENUATION
@0.1 TO 100MHz

40dB MIN.

HIPOT

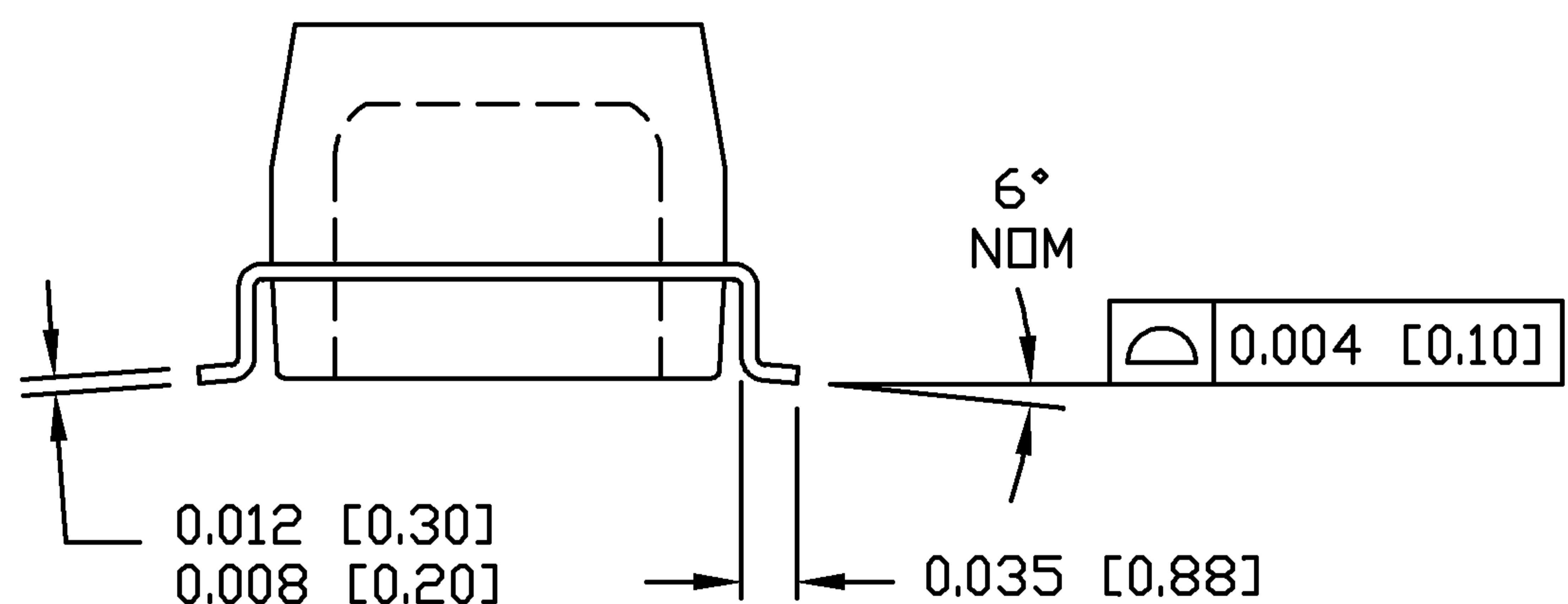
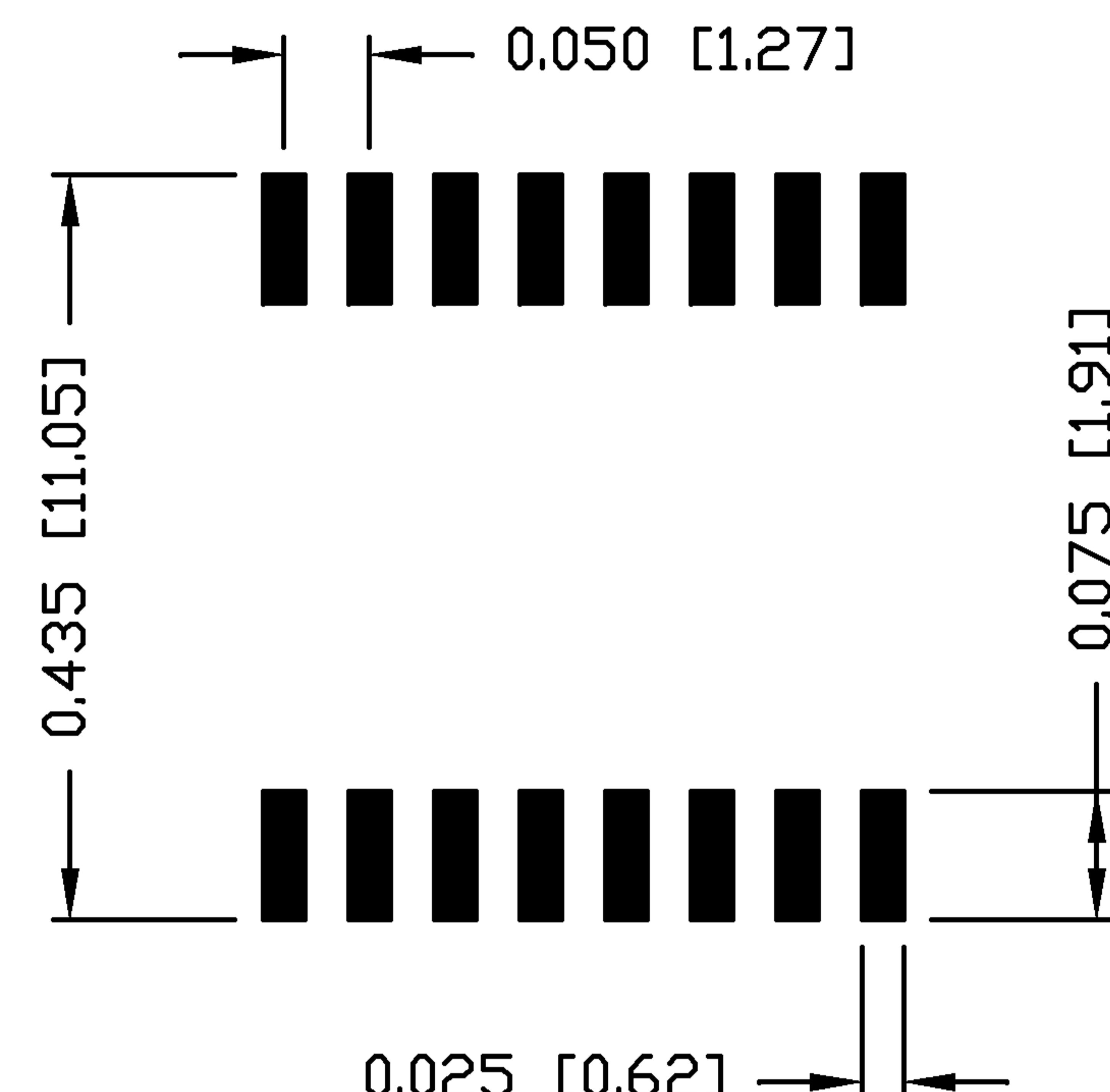
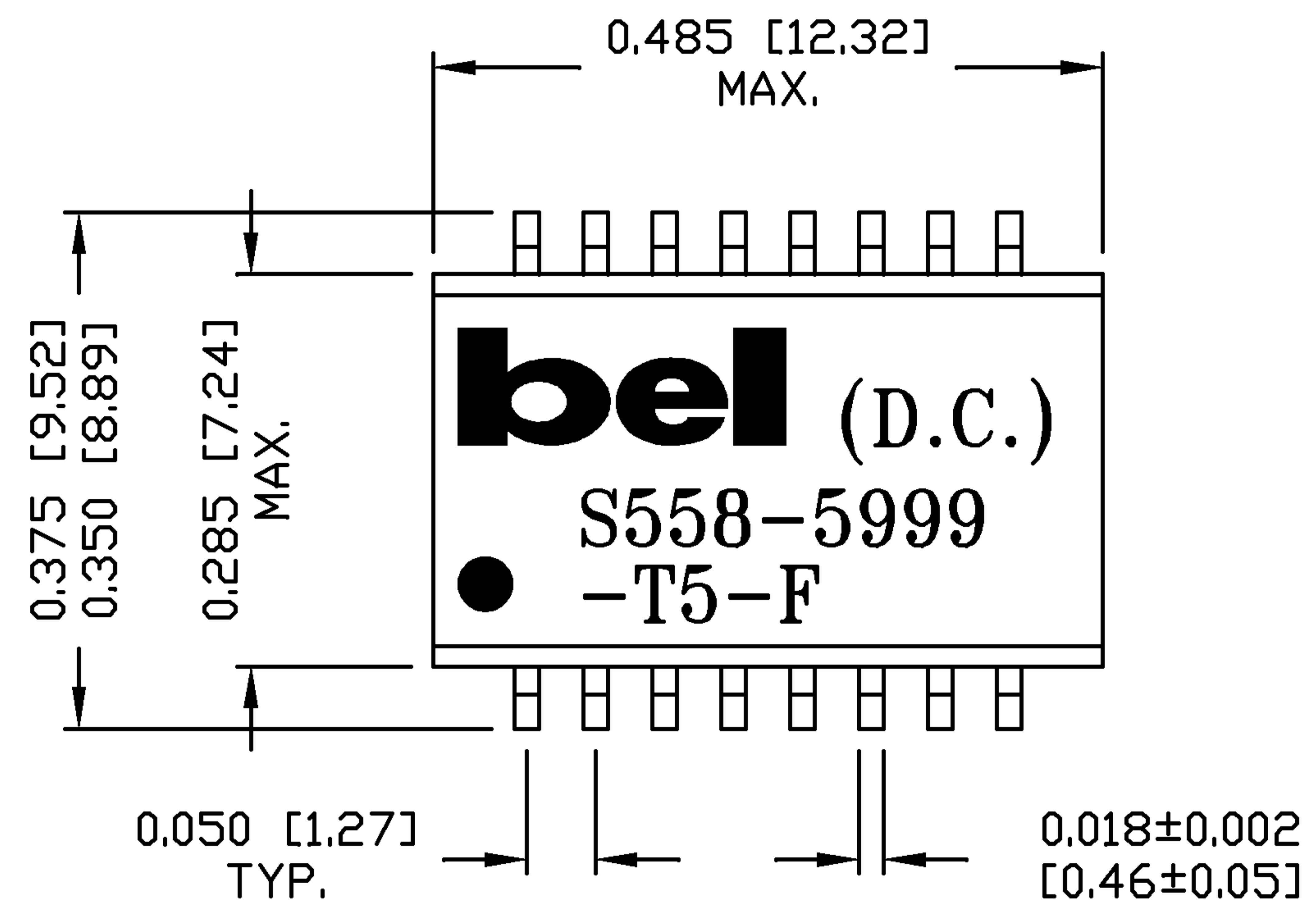
1500Vrms

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.		[] METRIC DIM. AS REFERENCE		bel
				TOL. IN INCH		UNIT : INCH [mm]	REV. : B	
CHAN CH	06-27-08	10/100BT MAGNETICS MODULE	X5585999T5-F	.X				
DRAWN BY	DATE	S558-5999-T5-F	FILE NAME	.XX		SCALE : N/A	SIZE : A4	
YH Lal	06-27-08		X5585999T5FB.DWG	.XXX				PAGE : 2

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SUGGESTED PCB PAD LAYOUT



NOTES:

1. STANDARD MARKING REFER TO DOC. HAND-WORK-04.
2. PACKAGE CODE: "QBS001".

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE		bel COMPONENTS FOR A CONNECTED PLANET
DRAWN BY	DATE				UNIT : INCH [mm]	REV. : B	
LAWRENCE TSANG	06-27-08	MECHANICAL DRAWING	X5585999T5-F	.X			
YH Lai	06-27-08	S558-5999-T5-F	FILE NAME	.XX	±0.01	SCALE : N/A	SIZE : A4
			X5585999T5FB.DWG	.XXX	±0.005	PAGE : 3	

Mouser Electronics

Authorized Distributor

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