



**THE DATASHEET OF**  
**S558-5999-T5-F**



ELECTRICAL CHARACTERISTICS @25°C



TURNS RATIO  
 TX (1-2-3) : (16-15-14)  
 RX (6-7-8) : (11-10-9)

1CT : 1CT  
 1CT : 1CT

POLARITY

PER DDT CONVENTION

DCL (-40°C TD +85°C OPERATING TEMP)  
 TX (16-14)  
 RX (11-9)

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

LEAKAGE INDUCTANCE, L<sub>e</sub>  
 TX (16-14) WITH 1-3 SHORTED  
 RX (11-9) WITH 6-8 SHORTED

0.35µH MAX  
 @1MHz 20mV

INTERWINDING CAPACITANCE, C<sub>w/w</sub>  
 TX (1-3 TD 16-14)  
 RX (6-8 TD 11-9)

30pF MAX  
 @1MHz 20mV

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

2.0ΩH MAX  
 1.0ΩH MAX

INSERTION LOSS  
 @100kHz TD 100MHz

1.0dB MAX

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

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

COMMON TD COMMON MODE ATTENUATION  
 @0.1 TD 100MHz  
 CROSSSTALK

30dB MIN  
 65dB MIN  
 55dB MIN  
 45dB MIN  
 35dB MIN

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

COMMON TD DIFFERENTIAL MODE ATTENUATION  
 @0.1 TD 100MHz  
 HIPOT

40dB MIN  
 LEAKAGE CURRENT LESS THAN 1mA AT 1500VAC

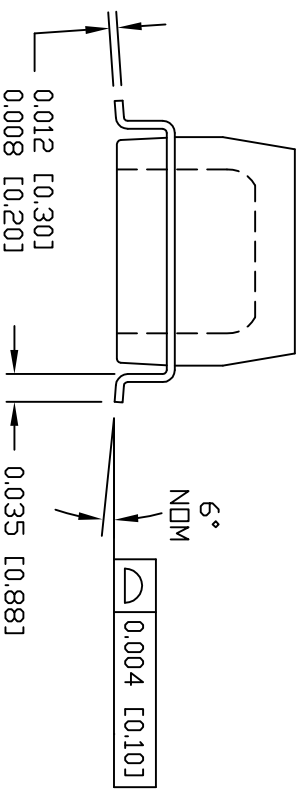
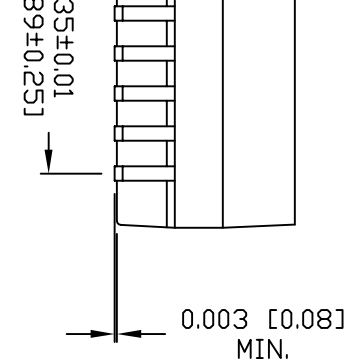
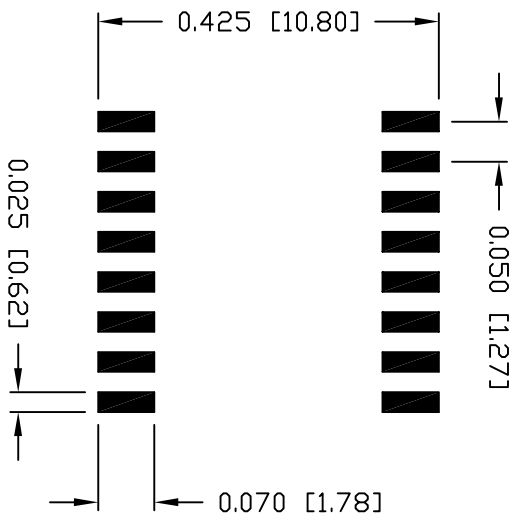
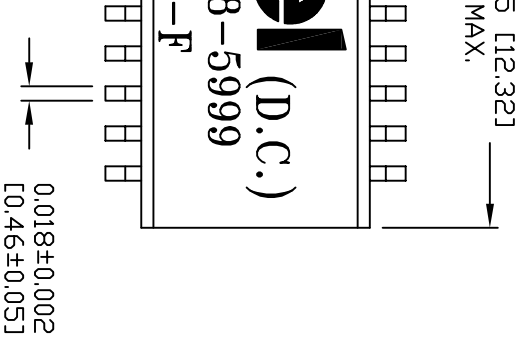
MAGNETICS MODULE -5999-T5-F	PART NO. / DRAWING NO.		STANDARD DIM.		[ ] METRIC DIM. AS REF.		REV. : A	PAGE : 2
	S558-5999-T5-F		TOL. IN INCH		UNIT : INCH [mm]			
	FILE NAME		X		SCALE : N/A			
	S5585999T5FA.DWG		XX					
			XXX				SIZE : A4	



POWER | PROTECT | CONNECT



SUGGESTED PCB PAD LAYOUT





HAND-WORK-04.

PART NO. / DRAWING NO. S558-5999-T5-F		STANDARD DIM. [ ] METRIC DIM. AS REF.		REV. : A		PAGE : 3	
FILE NAME S5585999T5FA.DWG		TOL. IN INCH X XX ±0.01 XXX ±0.005		UNIT : INCH [mm] SCALE : N/A		SIZE : A4	
NICAL DRAWING 3-5999-T5-F						 POWER   PROTECT   CONNECT	

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