

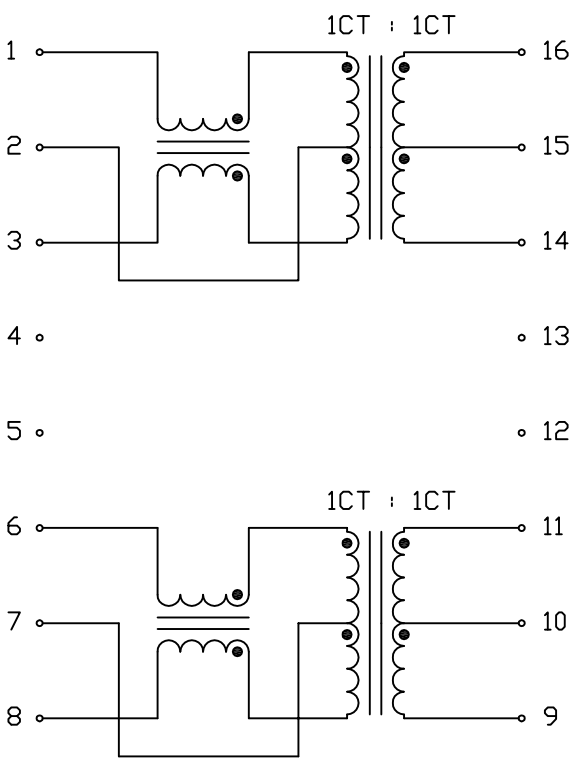
Additional Resources: Product Page 3D Model Technical Documentation

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ELECTRICAL CHARACTERISTICS @25°C




SCHEMATIC



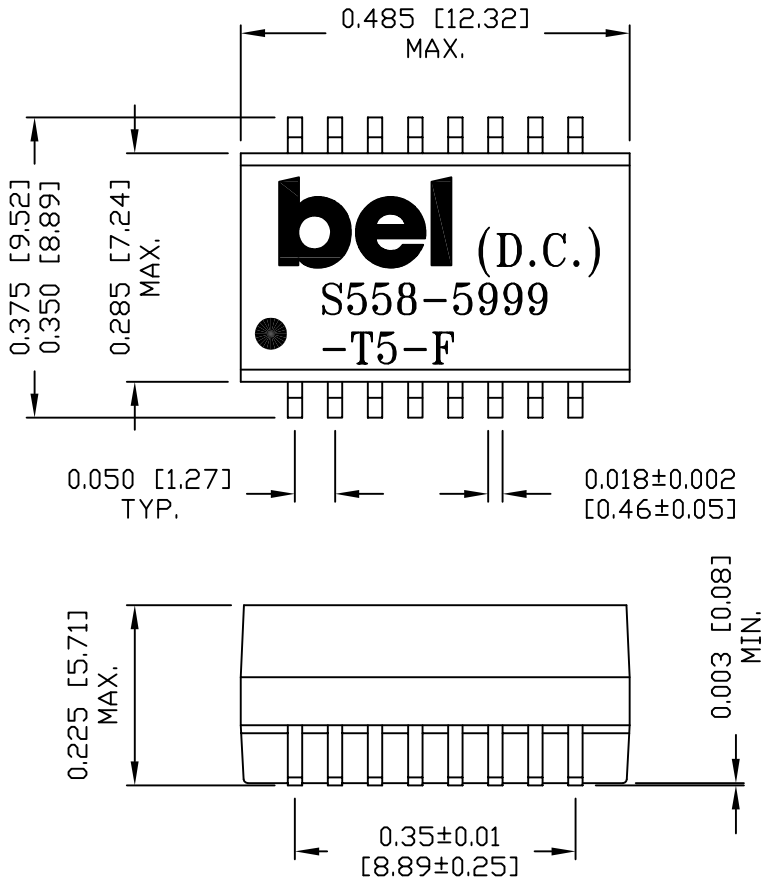
Turns Ratio	1CT : 1CT
Tx (1-2-3) : (16-15-14)	1CT : 1CT
Rx (6-7-8) : (11-10-9)	
Polarity	PER DOT CONVENTION
OCL (-40°C TO +85°C OPERATING TEMP)	350µH MIN
TX (16-14)	@100kHz, 100mV
RX (11-9)	WITH 8mA DC BIAS
Leakage Inductance, Le	0.35µH MAX
TX (16-14) WITH 1-3 SHORTED	@1MHz 20mV
RX (11-9) WITH 6-8 SHORTED	
Interwinding Capacitance, Cw/w	30pF MAX
TX (1-3 TO 16-14)	@1MHz 20mV
RX (6-8 TO 11-9)	
DC Resistance	2.0ΩHM MAX
(1-3) = (6-8)	1.0ΩHM MAX
(16-14) = (11-9)	
Insertion Loss	1.0dB MAX
@100kHz TO 100MHz	
Return Loss (UNDER 100ΩHM ±15% ENVIRONMENT)	18dB MIN
@100kHz TO 30MHz	18-20LOG(F/30MHz) dB MIN
@30 TO 60MHz	12dB MIN
@60 TO 80MHz	
Common to Common Mode Attenuation	30dB MIN
@0.1 TO 100MHz	
Crosstalk	65dB MIN
@1MHz	55dB MIN
@30MHz	45dB MIN
@60MHz	35dB MIN
@100MHz	
Common to Differential Mode Attenuation	40dB MIN
@0.1 TO 100MHz	
HIPOT	LEAKAGE CURRENT LESS THAN 1mA AT 1500VAC

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS REF.
Alice Pang	2021-01-27	10/100BT MAGNETICS MODULE S558-5999-T5-F	S558-5999-T5-F	TOL. IN INCH	UNIT : INCH [mm]
DRAWN BY	DATE		FILE NAME	.X	SCALE : N/A
ZC Guo	2021-01-27		S5585999T5FA.DWG	.XX	SIZE : A4
				.XXX	

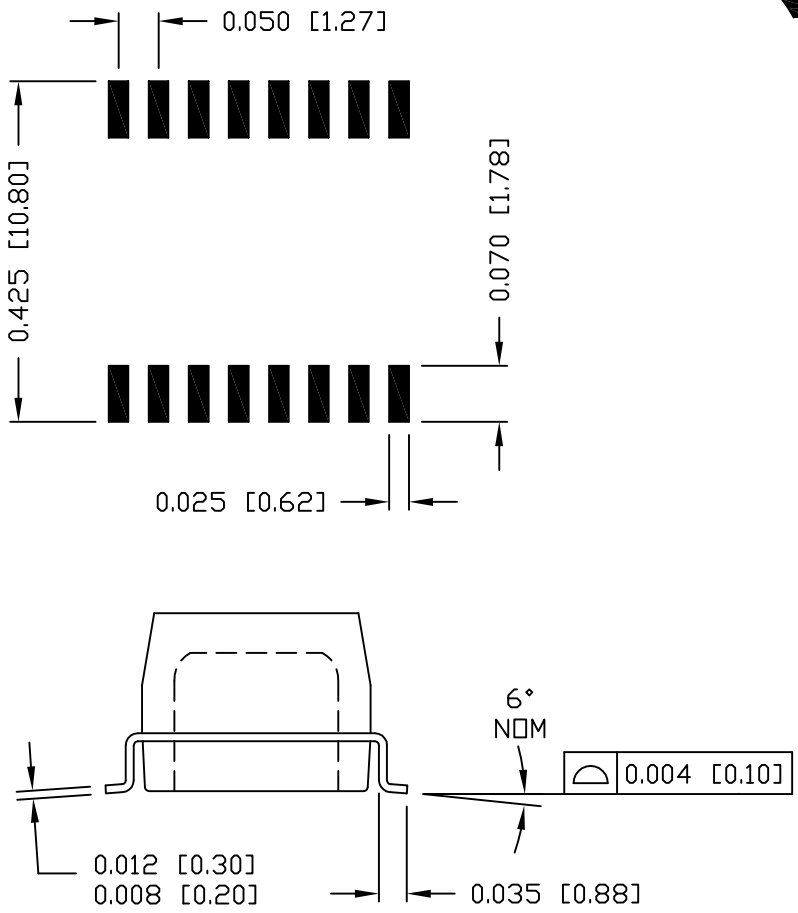
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SUGGESTED PCB PAD LAYOUT



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

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM.	[] METRIC DIM. AS REF.	
Lawrence Tsang	2021-01-27	MECHANICAL DRAWING S558-5999-T5-F	S558-5999-T5-F	TOL. IN INCH	UNIT : INCH [mm]	
DRAWN BY	DATE		FILE NAME	.X	SCALE : N/A	
ZC Guo	2021-01-27		S5585999T5FA.DWG	.XX ±0.01	SIZE : A4	
				.XXX ±0.005		

REV. : A

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