

H2019FNLT Datasheet

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DiGi Electronics Part Number	H2019FNLT-DG
Manufacturer	Pulse Electronics
Manufacturer Product Number	H2019FNLT
Description	PULSE XFMR 1CT:1CT TX 1CT:1CT RX
Detailed Description	350µH LAN 10G Base-T Pulse Transformer 1CT:1CT Transmitter, 1CT:1CT Receiver Surface Mount

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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
H2019FNLT	Pulse Electronics
Series:	Product Status:
-	Active
Transformer Type:	Inductance:
LAN 10G Base-T	350µН
ET (Volt-Time):	Turns Ratio - Primary:Secondary:
	1CT:1CT Transmitter, 1CT:1CT Receiver
Mounting Type:	Size / Dimension:
Surface Mount	0.500" L x 0.358" W (12.70mm x 9.09mm)
Height - Seated (Max):	Operating Temperature:
0.236" (5.99mm)	0°C ~ 70°C
Weight:	

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
RoHS Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8504.31.2000	





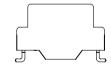
NOTES:

- 1. ROHS COMPLIANT
- 2. HEADER: DAP (DIALLYL PHTHALATE) WITH FLAMMABILITY RATING UL 94V-0 OR BETTER.
- 3. STORAGE TEMPERATURE: -20°C TO +125°C
- 4. COMPLIANCE TO J-STD:
 - A. J-STD-002: SOLDERABILITY AT 245°C REFLOW PROFILE
 - B. J-STD-020: LEVEL 1, NO MOISTURE SENSITIVE
 - C. J-STD-075: R7, 245°C MAXIMUM THROUGH REFLOW SOLDER
- 5. TO ORDER TAPE & REEL PACKAGING ADD A "T" SUFFIX
 - TO THE PART NUMBER(i.e H2019FNL BECOMES H2019FNLT).

@Pulse
H2019FNL
DATE CODE CTRY MFG

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FINAL OUTLINE

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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
MDL,SIN,100P,1:1,SM,TU	H2019FNL-10	PS-2005.002-D	1 OF 3	H2019FNL	A

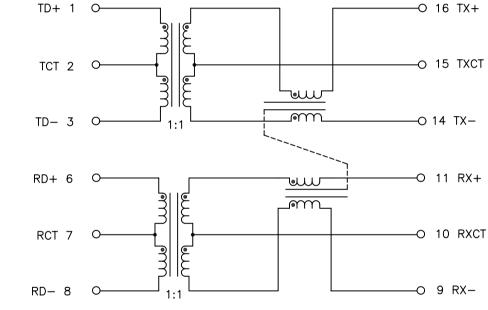
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PHONE: USA:858 674 8100, GERMANY:49 7032 78060, SINGAPORE:65 6287 8998, SHANGHAI:86 21 62787060, TAIWAN:886 3 4356768







SCHEMATIC

ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED

MEETS IEEE 802.3 SPECIFICATION

PARAMETER	SPECIFICATIONS			
OPERATING TEMPERATURE	0°C – 70 °C			
TURNS RATIO	1 : 1 ±2%			
POLARITY	PER SCHEMATIC			
	100 KHz	1-125 M	Hz	
INSERTION LOSS	-1.2 dB MAX	-0.2-0.002*f ^{1.4}	dB MAX	
RETURN LOSS, 1000BT	.1-30 MHz	30-60 MHz	60-80 MHz	
$(Z \text{ OUT} = 100 \text{ OHM } \pm 15\%)$	-16 dB MIN	-10+20*LOG ₁₀ (f/60 MHz) dB MIN	-10 dB MIN	
INDUCTANCE (OCL) (MEDIA SIDE, 0°C – 70°C)	350 uH MIN (MEASURED AT 100 KHz, 100 mVRMS AND WITH 8 mA DC BIAS			
	1 MHz	10-100 MHz		
CROSSTALK, ADJACENT CHANNELS	-50 dB MIN	-55+22*LOG 10(f/1	0) dB MIN	
COMMON MODE	2 MHz	30-200 MHz		
REJECTION RATIO	-45 dB MIN	-7+28*LOG ₁₀ (f/2	200) dB MIN	
DC RESISTANCE, 1/2 WINDING	.65 OHMS MAX			
DC RESISTANCE IMBALANCE	±.065 OHM	S MAX (CENTER TAP	SYMMETRY)	
INPUT – OUTPUT ISOLATION	1500	VRMS MIN AT 60 SE	CONDS	

NOTE: f IS FREQUENCY IN MHz.

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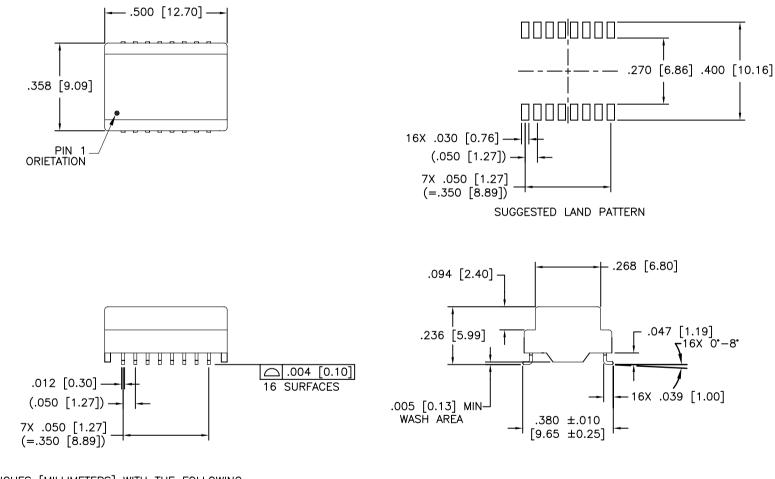
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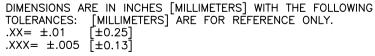
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