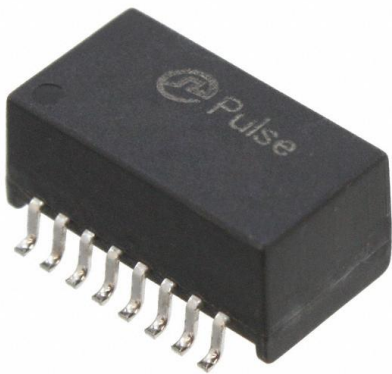


# H2019FNLT Datasheet

[www.digi-electronics.com](http://www.digi-electronics.com)



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	H2019FNLT-DG
Manufacturer	<a href="#">Pulse Electronics</a>
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



Tel: +00 852-30501935

RFQ Email: [Info@DiGi-Electronics.com](mailto:Info@DiGi-Electronics.com)

DiGi is a global authorized distributor of electronic components.



## Purchase and inquiry

Manufacturer Product Number:

H2019FNLT

Series:

-

Transformer Type:

LAN 10G Base-T

ET (Volt-Time):

-

Mounting Type:

Surface Mount

Height - Seated (Max):

0.236" (5.99mm)

Weight:

-

Manufacturer:

Pulse Electronics

Product Status:

Active

Inductance:

350µH

Turns Ratio - Primary:Secondary:

1CT:1CT Transmitter, 1CT:1CT Receiver

Size / Dimension:

0.500" L x 0.358" W (12.70mm x 9.09mm)

Operating Temperature:

0°C ~ 70°C

## Environmental & Export classification

RoHS Status:

RoHS Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.31.2000

Moisture Sensitivity Level (MSL):

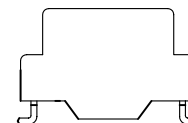
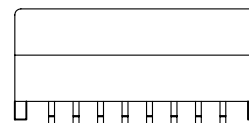
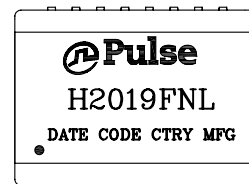
1 (Unlimited)

ECCN:

EAR99

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).

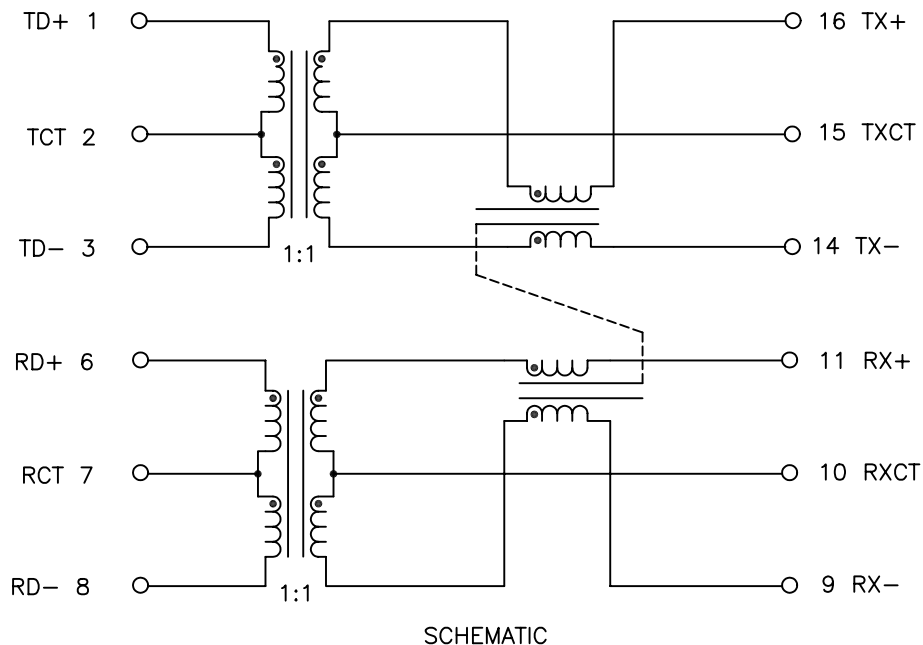


FINAL OUTLINE

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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

ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED  
MEETS IEEE 802.3 SPECIFICATION

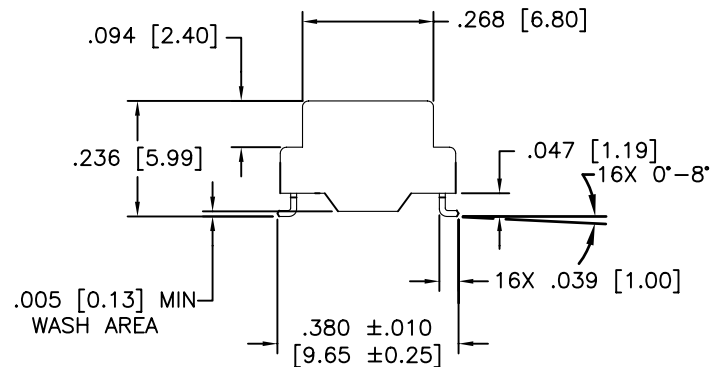
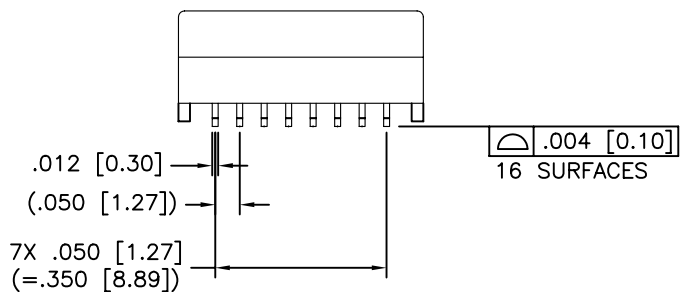
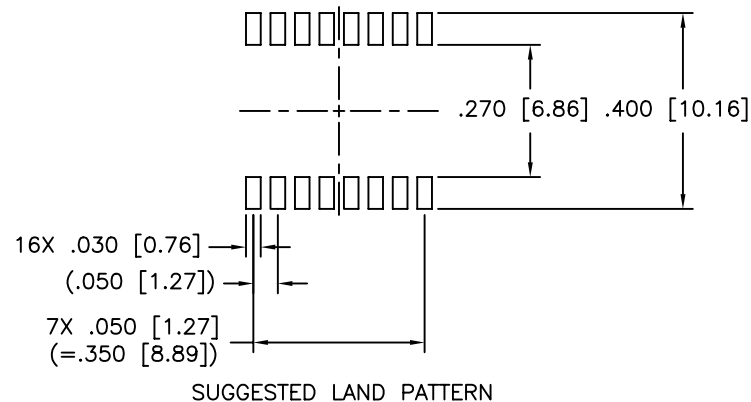
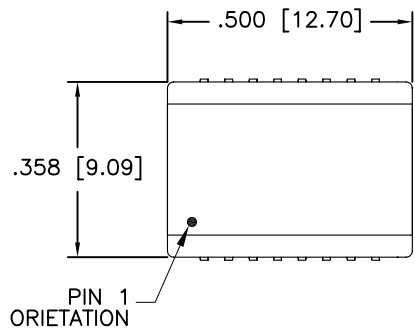


PARAMETER	SPECIFICATIONS		
OPERATING TEMPERATURE	0°C - 70 °C		
URNS RATIO	1 : 1 ±2%		
POLARITY	PER SCHEMATIC		
INSERTION LOSS	100 KHz	1-125 MHz	
	-1.2 dB MAX	-0.2-0.002*f <sup>1.4</sup> dB MAX	
RETURN LOSS, 1000BT (Z OUT = 100 OHM ±15%)	.1-30 MHz	30-60 MHz	60-80 MHz
	-16 dB MIN	-10+20*LOG <sub>10</sub> (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)		
CROSSTALK, ADJACENT CHANNELS	1 MHz	10-100 MHz	
	-50 dB MIN	-55+22*LOG <sub>10</sub> (f/10) dB MIN	
COMMON MODE REJECTION RATIO	2 MHz	30-200 MHz	
	-45 dB MIN	-7+28*LOG <sub>10</sub> (f/200) dB MIN	
DC RESISTANCE, 1/2 WINDING	.65 OHMS MAX		
DC RESISTANCE IMBALANCE	±.065 OHMS MAX (CENTER TAP SYMMETRY)		
INPUT - OUTPUT ISOLATION	1500 VRMS MIN AT 60 SECONDS		

NOTE: f IS FREQUENCY IN MHz.

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MDL,SIN,100P,1:1,SM,TU	H2019FNL-10	PS-2005.002-D	2 OF 3	H2019FNL	A



DIMENSIONS ARE IN INCHES [MILLIMETERS] WITH THE FOLLOWING TOLERANCES: [MILLIMETERS] ARE FOR REFERENCE ONLY.  
 .XX= ±.01 [±0.25]  
 .XXX= ±.005 [±0.13]

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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	3 OF 3	H2019FNL	A



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