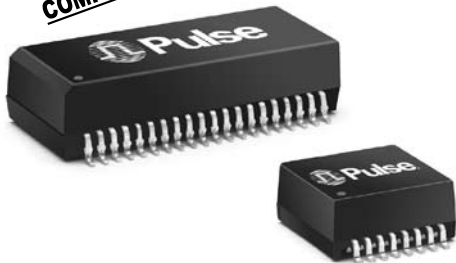


10/100BASE-TX TRANSFORMER MODULES

For Auto MDI/MDIX Applications



-  Symmetrical TX and RX channels for Auto MDI/MDIX capability
-  Approved for use with the Broadcom BCM5226 and Level One LXT9784
-  Meets IEEE 802.3 specification

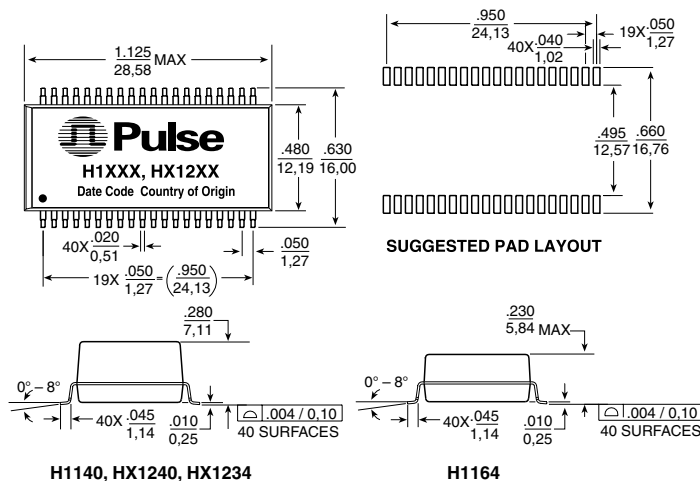
Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

RoHS-6 ² Compliant Part Number	RoHS-5 ² Compliant Part Number	Insertion Loss (MAX)	Return Loss (dB MIN)					Crosstalk (dB MIN)				Differential to Common Mode Rejection (dB MIN)		Hipot (Vrms MIN)
		0.1-100MHz	2-30MHz	40MHz	50MHz	60-80MHz	1kHz	30MHz	60MHz	100MHz	1-60MHz	60-200MHz		
H1140NL ^{3c}	H1140 ^{3c}	-1.0	-18	-14.4	-13.1	-12	-65	-50	-40	-35	-40	-35	1500	
H1141NL ^{3c}	—	-1.0	-18	-14.4	-13.1	-12	-65	-50	-40	-35	-40	-35	1500	
H1164NL ^{3d}	H1164 ^{3d}	-1.0	-18	-14.4	-13.1	-12	-55	-45	-40	-33	-37	-25	1500	
HX1234NL ^{1, 3c}	HX1234 ^{1, 3c}	-1.4	-18	-14.4	-13.1	-12	-55	-45	-40	-33	-37	-25	1500	
—	HX1240 ^{3c}	-1.0	-16.5	-16	-15.5	-12	-60	-43	-38	-33	-43	-27	1500	

1. Operating Temperature -40°C to +85°C
2. For Tape & Reel packaging, add a "T" suffix at the end of the part number when ordering, e.g. H1164T
3. MSL = Moisture Sensitivity Level a=1 b=2 c=3 d=4

Mechanicals

H1140, H1164, HX1234, HX1240



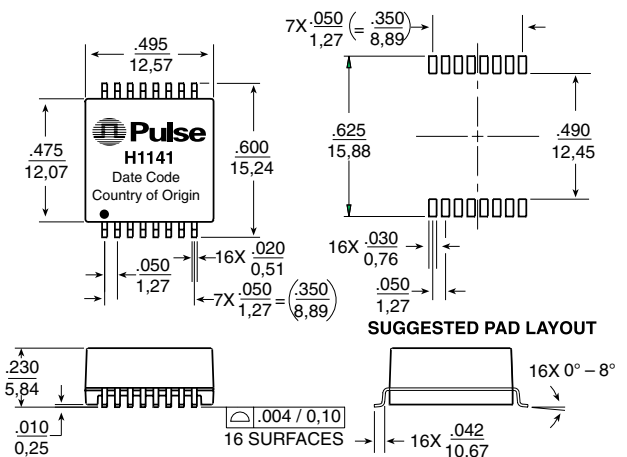
Weight 5.6 grams*
Tape & Reel 250/reel
Tube 15/tube

*H1164 = 4.4 grams

Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified, all tolerances are $\pm \frac{.010}{.025}$

H1141



Weight 1 gram
Tape & Reel 350/reel
Tube 35/tube

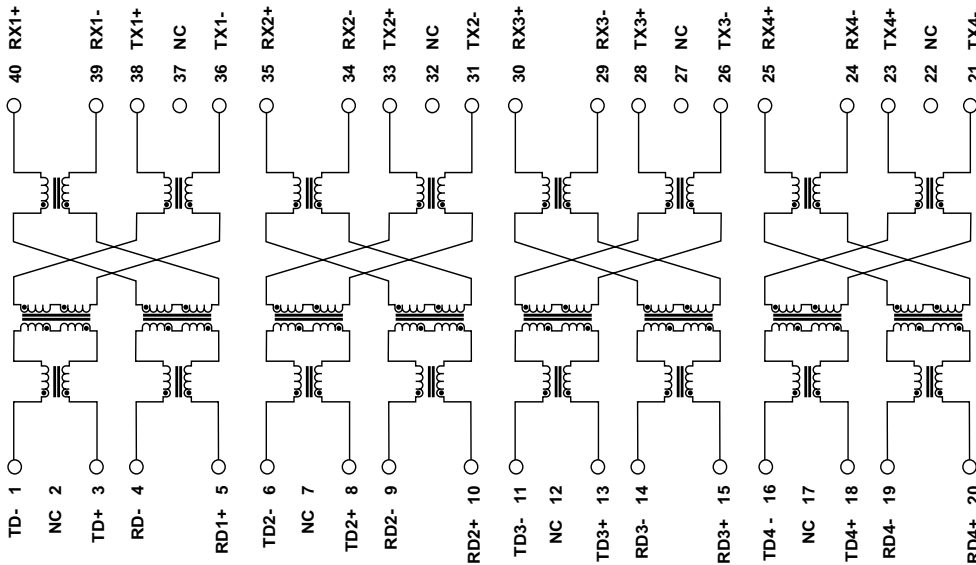
10/100BASE-TX TRANSFORMER MODULES

For Auto MDI/MDIX Applications

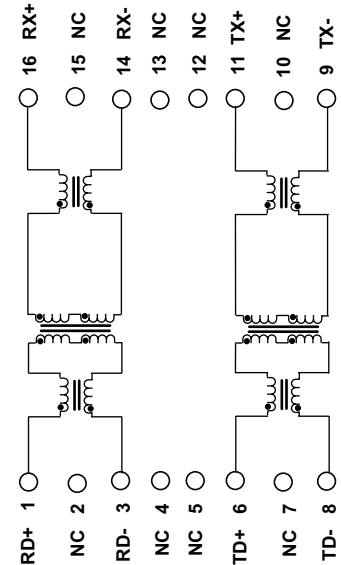


Schematics

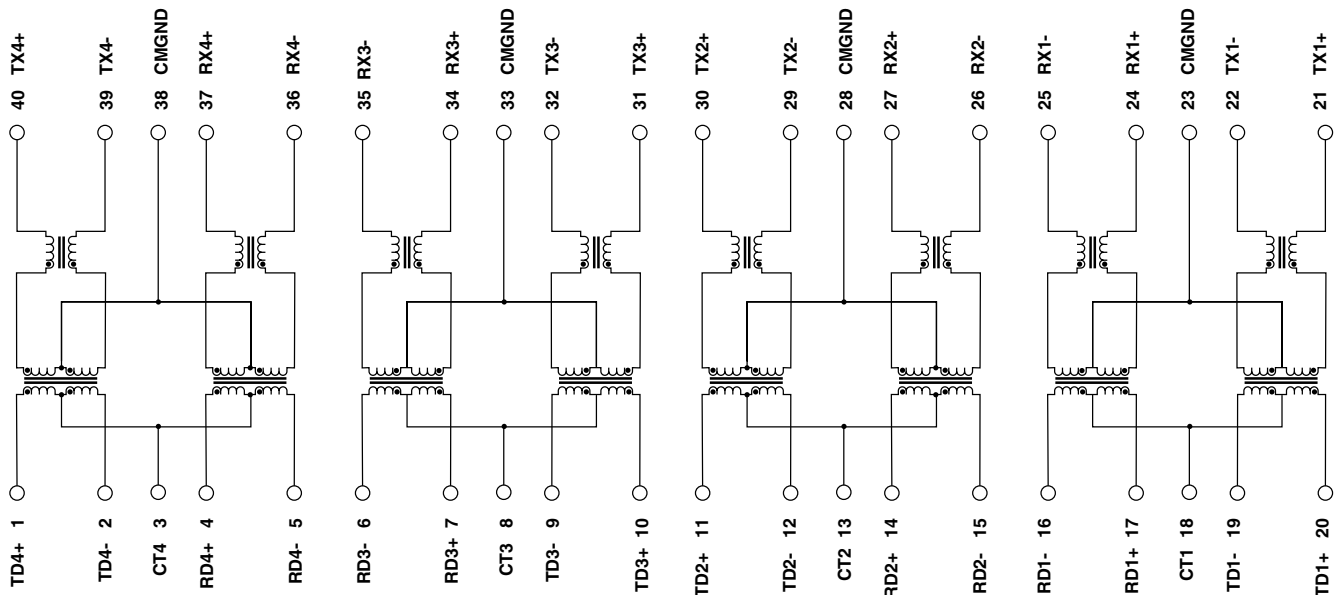
H1140, HX1240



H1141



H1164, HX1234



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