

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
- RoHS"NL" peak solder rating 260°C
- non-RoHS peak solder rating 235°C

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

Part Number	Insertion Loss 0.1-100MHz (dB MAX)	Return Loss (dB MIN)				Differential to Common Mode Rejection (dB MIN)		Crosstalk (dB MIN)				Hipot (Vrms MIN)
		2-30MHz	40MHz	50MHz	60-80MHz	1-60MHz	60-200MHz	1kHz	30MHz	60MHz	100MHz	
SH1140	-1.0	-18	-14.4	-13.1	-12	-40	-35	-65	-50	-40	-35	1500
SH1141	-1.0	-18	-14.4	-13.1	-12	-40	-35	-65	-50	-40	-35	1500
SH1164	-1.0	-18	-14.4	-13.1	-12	-37	-25	-55	-45	-40	-33	1500
SHX1234	-1.4	-18	-14.4	-13.1	-12	-37	-25	-55	-45	-40	-33	1500
SHX1240	-1.0	-16.5	-16	-15.5	-12	-43	-27	-60	-43	-38	-33	1500

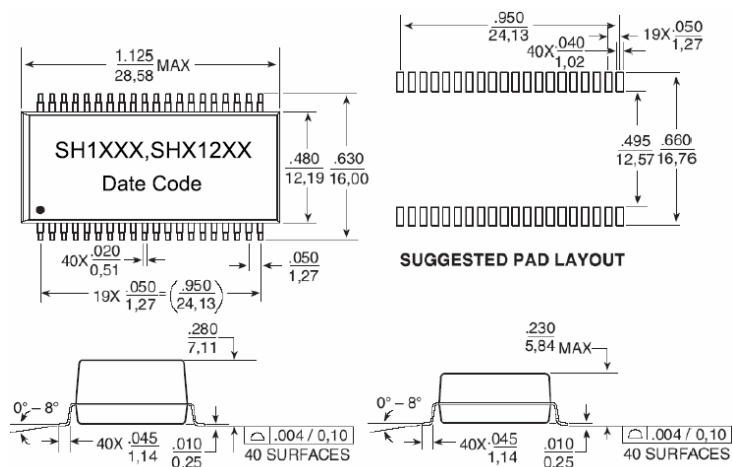
1. Operating Temperature -40°C to +85°C

2. For Tape & Reel packaging, add a "T" suffix at the end of the part number when ordering, e.g. SH1164T.

3. MSL=Moisture Sensitivity Level a=1 b=2 c=3 d=4

Mechanical

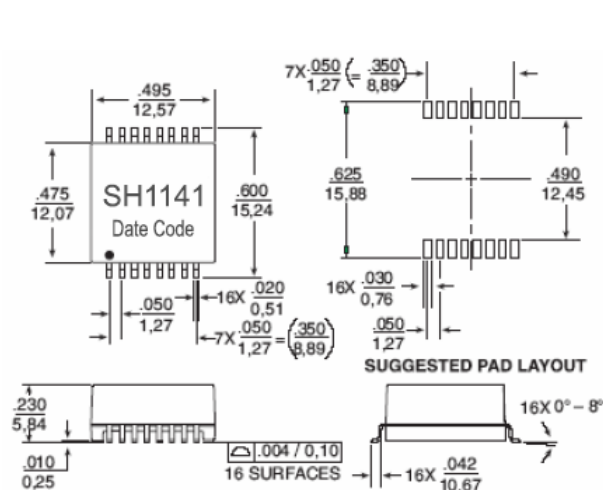
SH1140, SH1164, SHX1234, SHX1240



SH1140, SHX1234, SHX1240

SH1164

SH1141



Dimensions: $\frac{\text{Inches}}{\text{mm}}$ Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$

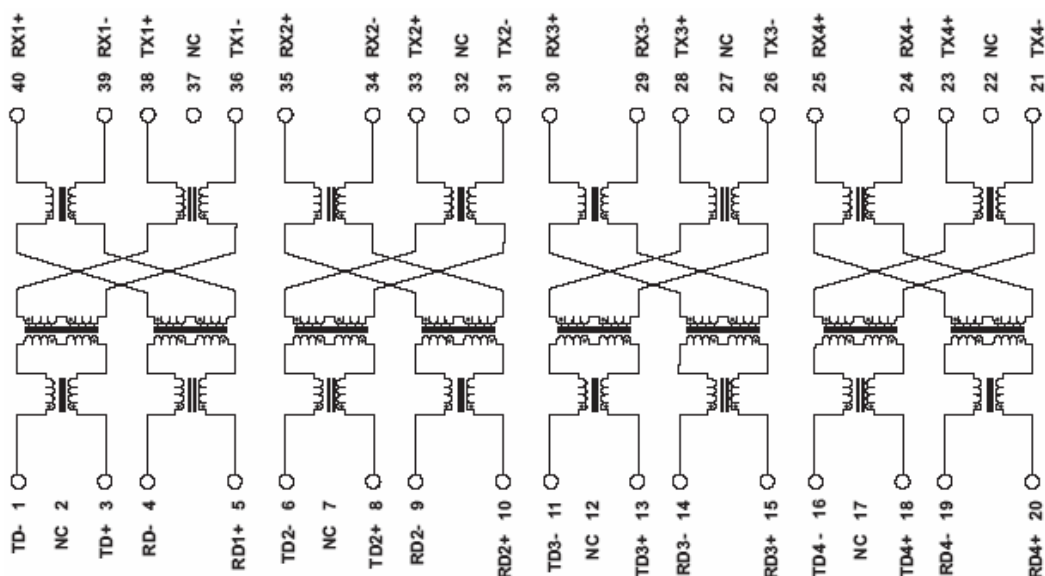
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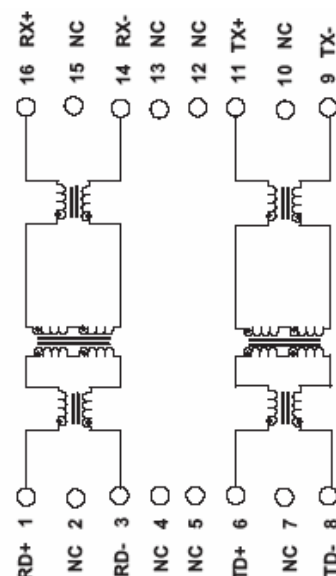


Schematics

SH1140, SHX1240



SH1141



SH1164, SHX1234

