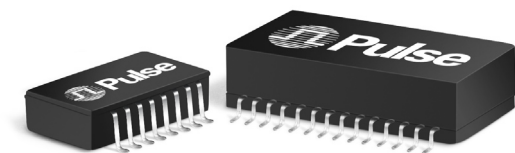


Copperhead Series



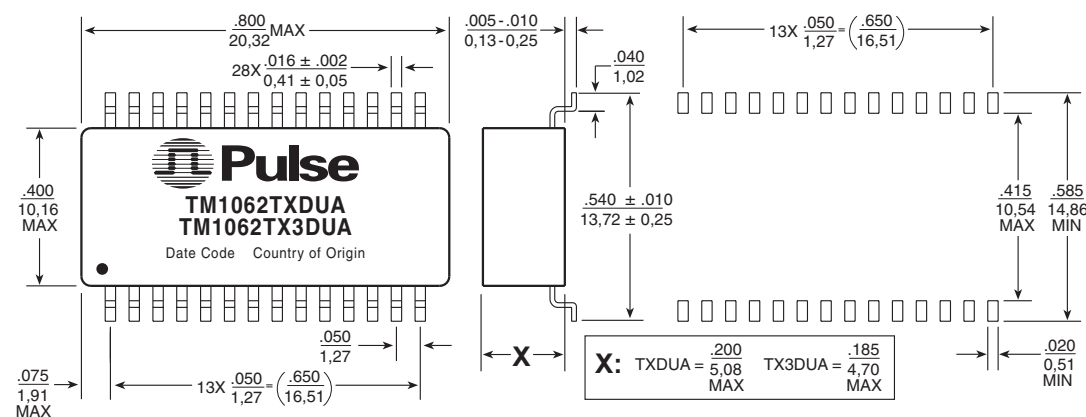
- Small package incorporating active transmit and passive receive circuits with integrated isolation transformers
- Low power dissipation
- Low transmit/receive jitter
- Recommended for distances up to 20 meters
- AS9100 Certified (Based on, including ISO 9001:2000)
- IC grade transfer-molded package withstands 225 degree C peak temperature profile.

Part Number	Input Data Voltage - V_{IL} (V)			Input Data Voltage - V_{IH} (V)			Input Voltage Differential - V_{IN} (mV)			Input Current - I_{IL} (μ A)	Input Current - I_{IH} (μ A)	Differential Signal Level - V_{OUT} (mV)		
	MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	MAX	MAX	MIN	TYP	MAX
TM1062TXDUA	1.35	1.63	1.88	2.07	2.33	2.58	150	800	1200	40	150	1200	1300	1500
TM1062TXHUA	1.35	1.63	1.88	2.07	2.33	2.58	150	800	1200	500	750	1200	1300	1500
TM1062TX3DUA	1.35	1.63	1.88	2.07	2.33	2.58	150	800	1200	500	750	1200	1300	1500
TM125TXHUA	1.35	1.63	1.88	2.07	2.33	2.58	150	800	1200	500	750	1200	1300	1500

Part Number	Power Dissipation (mW)	θ_{JA} (°C/W)		Input Voltage (V _{CC} ±10%)	Data Rate - D _R (Mb/s)		Total P-P Transmit Jitter (pS)		Output Rise-Fall Time (20-80%) (pS)		Return Loss (dB)
	TYP	@85°C	@125°C	TYP	MIN	MAX	TYP	MAX	TYP	MAX	MIN
TM1062TXDUA	232	41	39	3.3V	246	1062	62	94	275	400	-12
TM1062TXHUA	232	41	39	3.3V	246	1062	62	94	275	400	-12
TM1062TX3DUA	700	34	30	3.3V	246	1062	62	94	275	400	-12
TM125TXHUA	232	41	39	3.3V	98	246	62	94	275	400	-12

Part Number	Turns Ratio	Primary Inductance - L _M (μH)	Rise Time (20%-80%) (pS)	Data Rate -D _R (Mb/s)		Winding Resistance - DCR (Ω)	Insertion Loss (dB)	Return Loss (dB)
	TYP	MIN	MAX	MIN	MAX	MAX		
TM1062TXDUA	1:1	4.5	300	246	1062	0.2	-2 MAX	-12 MIN
TM1062TXHUA	1:1	4.5	300	246	1062	0.2	-2 MAX	-12 MIN
TM1062TX3DUA	1:1	4.5	300	246	1062	0.2	-2 MAX	-12 MIN
TM125TXHUA	1:1	44	300	98	246	0.2	-2 MAX	-12 MIN

TM1062TXDUA / TM1062TX3DUA



Dimensions: $\frac{\text{Inches}}{\text{mm}}$
Unless otherwise specified,
all tolerances are $\pm \frac{.005}{0.13}$

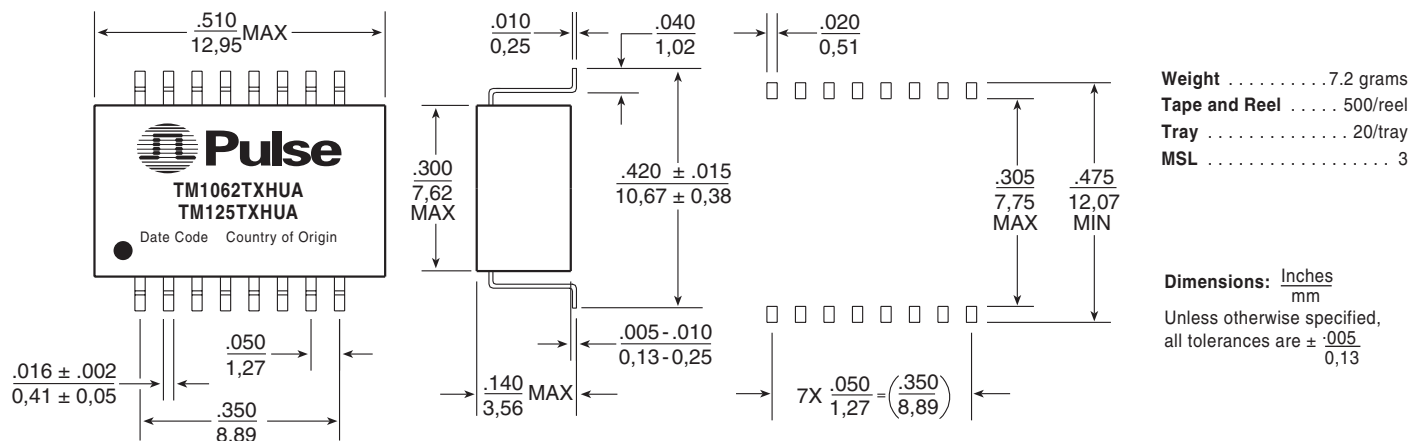
IEEE 1394B FIREWIRE 1.062GB TRANSCEIVER LINE INTERFACE MODULE

Copperhead Series



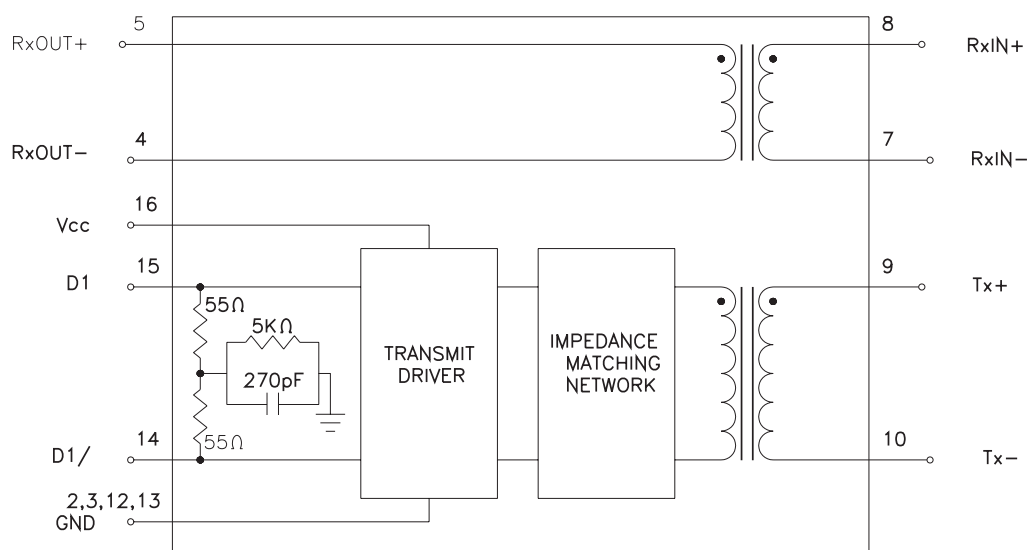
Mechanical

TM1062TXHUA / TM125TXHUA



Schematic

TM1062TXHUA / TM125TXHUA



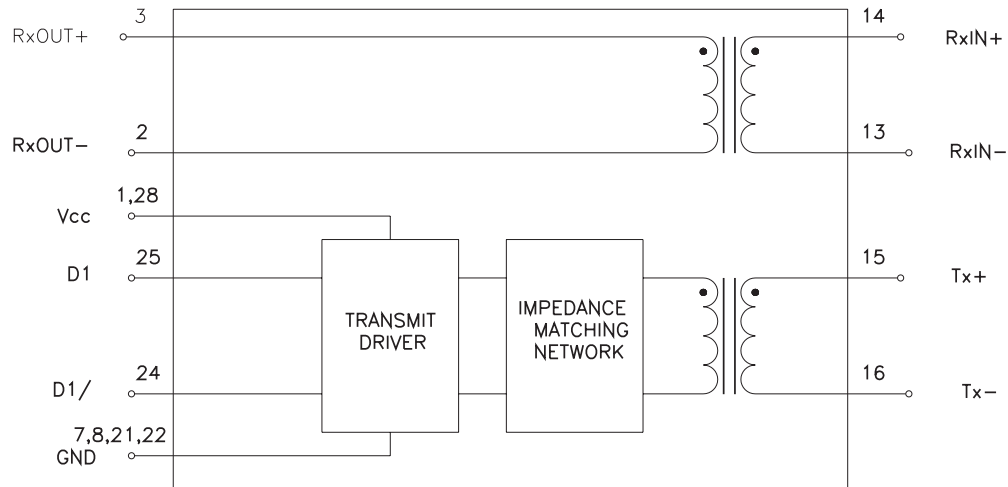
IEEE 1394B FIREWIRE 1.062GB TRANSCEIVER LINE INTERFACE MODULE

Copperhead Series

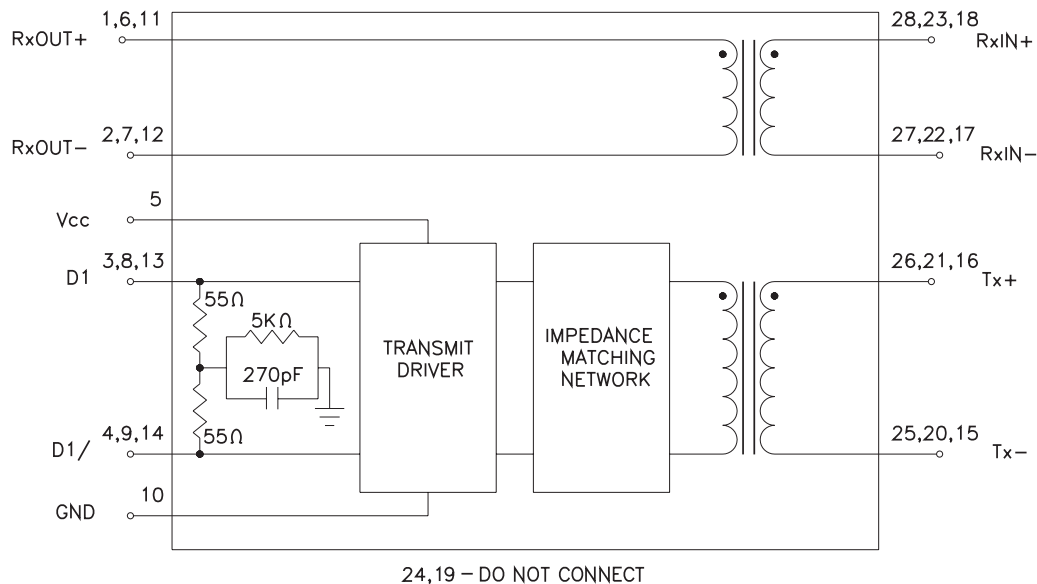


Schematics

TM1062TXDUA



TM1062TX3DUA



For More Information:

Pulse Worldwide Headquarters
12220 World Trade Dr.
San Diego, CA 92128
U.S.A.
www.pulseeng.com

Pulse European Headquarters
Einsteinstrasse 1
D-71083 Herrenberg
Germany

Pulse China Headquarters
B402, Shenzhen Academy of
Aerospace Technology Bldg.
10th Kejinan Rd.
High-Tech Zone
Nanshan District
Shenzhen, PR China 518057

Pulse North China
Room 1503
XinYin Building
No. 888 YiShan Rd.
Shanghai 200233
China

Pulse South Asia
150 Kampong Ampat
#07-01/02
KA Centre
Singapore 368324

Pulse North Asia
No. 26
Kao Ching Rd.
Yang Mei Chen
Taoyuan Hsien
Taiwan, R. O. C.
32667

TEL: 858 674 8100
FAX: 858 674 8262

TEL: 49 7032 7806 0
-FAX: 49 7032 7806 12

TEL: 86 755 33966678
-FAX: 86 755 33966700

TEL: 86 21 32181071
-FAX: 86 21 32181396

TEL: 65 6287 8998
-FAX: 65 6280 0080

TEL: 886 3 4643715
-FAX: 886 3 4641911 -

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright, 2008. Pulse Engineering, Inc. All rights reserved.