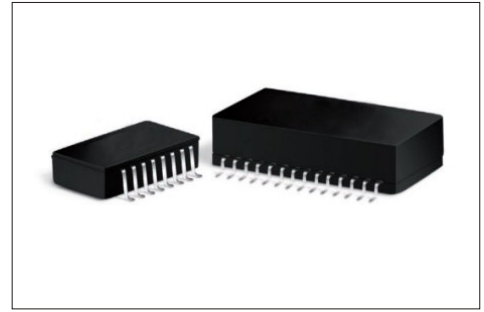


# IEEE 1394B FIREWIRE 1.062GB TRANSCEIVER LINE INTERFACE MODULE LTM1062HUXB



## Features

- 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°C peak temperature profile.

### TRANSMITTER — Electrical Specifications @ 25°C — Operating Temperature -55°C to +125°C

Part No.	Input Data Voltage-V <sub>IL</sub> (V)			Input Data Voltage-V <sub>IH</sub> (V)			Input Voltage Differential-V <sub>IN</sub> (mV)			Input Current-I <sub>IL</sub> (μA)	Input Current-I <sub>IH</sub> (μA)	Differential Signal Level-V <sub>OUT</sub> (mV)		
	MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	MAX	MAX	MIN	TYP	MAX
LTM1062DUXB	1.35	1.63	1.88	2.07	2.33	2.58	150	800	1200	40	150	1200	1300	1500
LTM1062HUXB	1.35	1.63	1.88	2.07	2.33	2.58	150	800	1200	500	750	1200	1300	1500
LTM1062DU3XB	1.35	1.63	1.88	2.07	2.33	2.58	150	800	1200	500	750	1200	1300	1500
LTM125TXHUA	1.35	1.63	1.88	2.07	2.33	2.58	150	800	1200	500	750	1200	1300	1500

### TRANSMITTER — Additional Electrical Specifications @ 25°C — Operating Temperature -55°C to +125°C

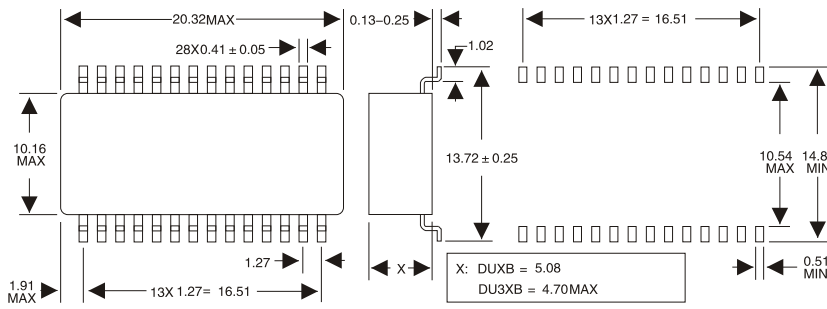
Part No.	Power Dissipation (mW)	θ <sub>ja</sub> (°C/W)		Input Voltage (V)	Data Rate-D <sub>R</sub> (Mb/s)		Total P-P Transmit Jitter (pS)		Output Rise-Fall Time(20%-80%) (ps)		Return Loss (dB)
	TYP	@ 85°C	@ 125°C	TYP	MIN	MAX	TYP	MAX	TYP	MAX	MIN
LTM1062DUXB	232	41	39	3.3V	246	1062	62	94	275	400	-12
LTM1062HUXB	232	41	39	3.3V	246	1062	62	94	275	400	-12
LTM1062DU3XB	700	34	30	3.3V	246	1062	62	94	275	400	-12
LTM125TXHUA	232	41	39	3.3V	98	246	62	94	275	400	-12

### TRANSMITTER — Additional Electrical Specifications @ 25°C — Operating Temperature -55°C to +125°C

Part No.	Turns Ratio	Primary Inductance-L <sub>m</sub> (μH)	Rise Time (20%-80%) (pS)	Data Rate-D <sub>R</sub> (Mb/s)		Winding Resistance-DCR (Ω)	Insertion Loss (dB)	Return Loss (dB)
	TYP	MIN	MAX	MIN	MAX	MAX		
LTM1062DUXB	1:1	4.5	300	246	1062	0.2	-2MAX	-12MIN
LTM1062HUXB	1:1	4.5	300	246	1062	0.2	-2MAX	-12MIN
LTM1062DU3XB	1:1	4.5	300	246	1062	0.2	-2MAX	-12MIN
LTM125TXHUA	1:1	44	300	98	246	0.2	-2MAX	-12MIN

Notes: To order RoHS compliant part, add the suffix "Z" to the part number (i.e.LTM1062DUXBZ). Part Limited to 225° C Max Relow Temperature.  
\* At 1062 Mb/s Data Rate

**Mechanical LTM1062DUXB/LTM1062DU3XB**

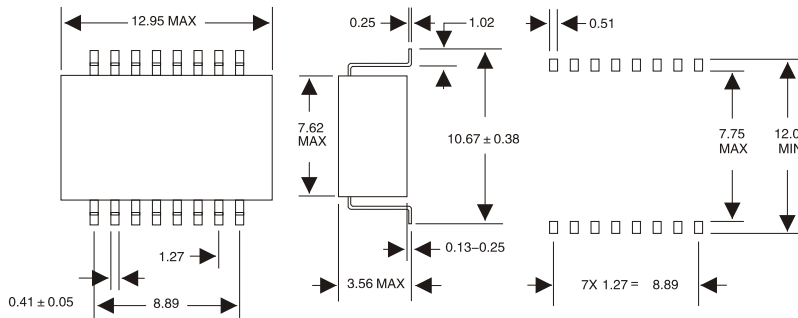


	DUXB	DU3XB
Weight.....	2.3grams	2.8grams
Tape & Reel .....	.350/reel	.350/reel
Tray.....	.25/tray	.25/tray
MSL.....	.3	.3

Dimensions:mm

Unless otherwise specified,all tolerances are ± 0.13

**Mechanical LTM1062HUXB/LTM125TXHUA**

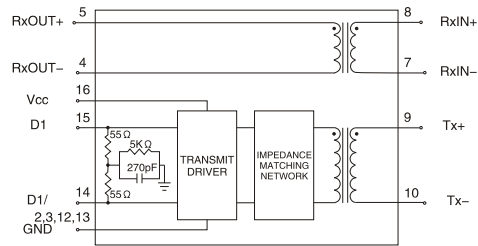


Weight.....	7.2grams
Tape & Reel .....	.500/reel
Tray.....	.20/tray
MSL.....	.3

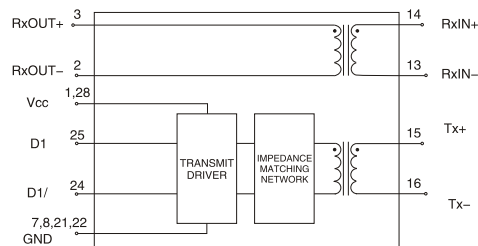
Dimensions:mm

Unless otherwise specified,all tolerances are ± 0.13

**Schematic LTM1062HUXB/LTM125TXHUA**



**Schematic LTM1062DUXB**



**Schematic LTM1062DU3XB**

