

1394b Triple Transformer Cable Interface Module



Data Sheet

North Hills Transceiver Cable Interface Transformers condition transmit and receive signals in accordance with the specifications of SAE AS5643/1 and IEEE STD 1394b-2008. It incorporates low insertion loss transmit and receive transformers to reject common mode signals and provide isolation between the cable and other electronics at the S100 β / S200 β / S400 β data rates.



Features:

- Semiconductor grade transfer molded package
- Three passive transmit / receive circuits
- Integrated transmit and receive transformers
- S100 / S200 / S400 Operation

Benefits:

- Low transmit and receive jitter
- Withstands 225°C peak solder reflow profile
- Lead Finish: Tin/Lead (Lead Free available)
- Operating Temperature -55°C to +125°C
- Made in USA

Specifications

Electrical Characteristics @25°C - Operating Temperature -55°C to +125°C											
Part Number	Turns Ratio	Primary Inductance(μ H)	Rise/Fall Time 10% - 90% (ps)			DC Resistance (Ω)		Hi-Pot (Vrms min)	Insertion Loss (dB)		Return Loss (dB)
			MIN	TYP	MAX	TYP	MAX		MIN	MAX	
TF250X3B10	1:1	23	250	300	0.1	0.2	1,500	-2	-12		
TF500X3B10	1:1	4.5	250	300	0.1	0.2	1,500	-2	-12		

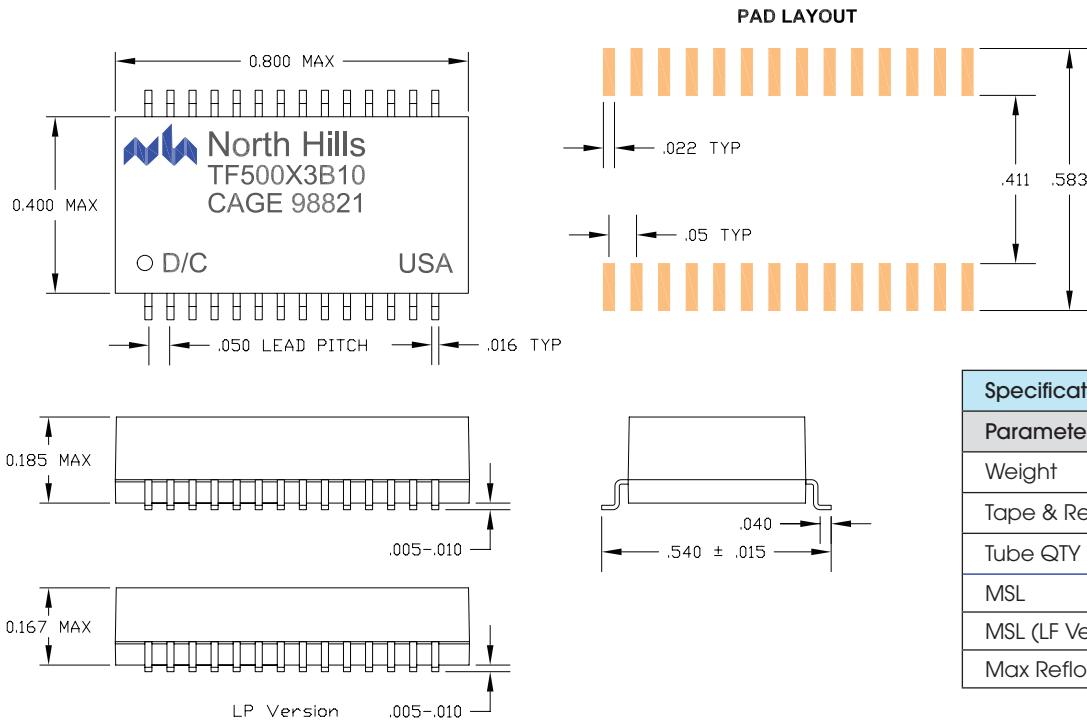
NOTE: Add suffix "TR" to part number to indicate Tape and Reel packaging
Add suffix "LF" to part number to indicate lead free lead finish
Add suffix "LP" to part number to indicate reduced height



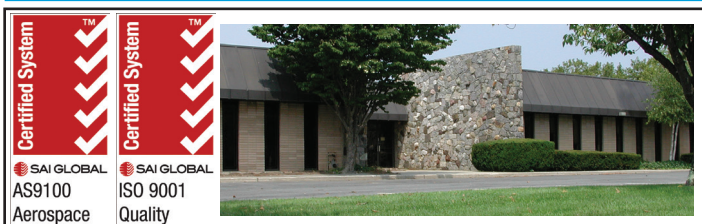
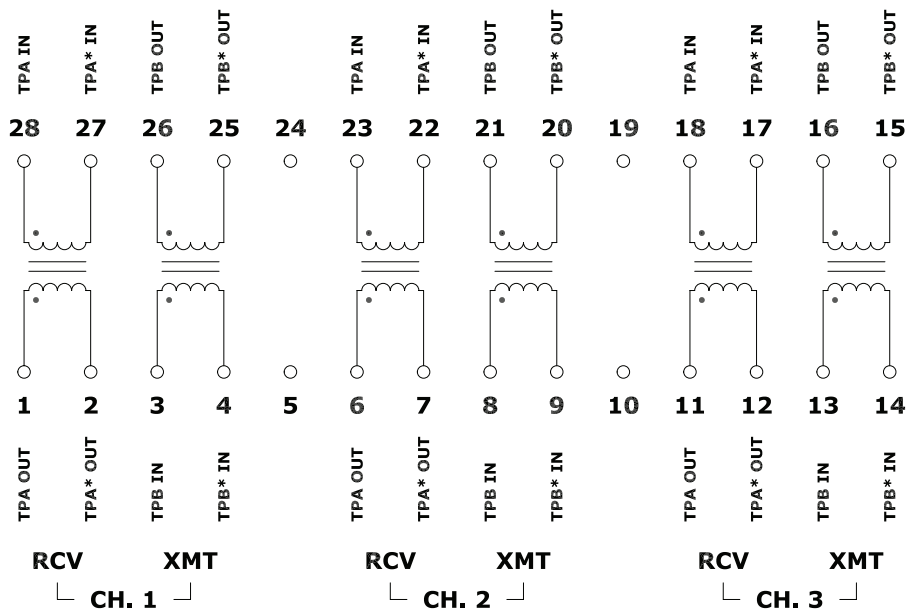
For more information: www.BTTC-Beta.com/TFXX0X3B10

Technical Drawings

Mechanical Outline



Simplified Schematics



The information in this Brochure is believed to be accurate; however, no responsibility is assumed by Beta Transformer Technology Corporation for its use, and no license or rights are granted by implication or otherwise in connection therewith. Specifications are subject to change without notice.

For ordering assistance and technical support,

E-Mail: service@BTTC-Beta.com

Visit: BTTC-Beta.com Data Device Corporation

Call: HQ, N.Y., U.S.A (631) 224-7393

UK +44-(0)1635-811140
 France +33-(0)1-41-16-3424
 Germany +49-(0)89-1500-12-11
 Japan +81-(0)3-3814-7688
 Asia +65-6489-4801
 India +91 80 46797 0368

