

FEATURES:

- Designed for long haul Gigabit Ethernet 10G Base-T, full duplex applications
- Supports 4 pairs of category 5 UTP cable
- Cable interface for isolation and low common mode emissions
- Compliant with IEEE 802.3an standard.
- Recognized By UL 60950-1

YUAN DEAN SCIENTIFIC



LAN Filters  
**10G SERIES**  
 10G Base-T  
 24PIN SMD



**ELECTRICAL SPECIFICATIONS@25°C**  
 Operating temperature 0°C to 70°C

Part Number	Insertion Loss (dB TYP)			Return Loss (dB @100 Ω)				CDMR (dB TYP)		CMR (dB TYP)			Crosstalk (dB TYP)		Hipot (Vrms MIN)
	1 - 300 MHz	300-400 MHz	400-500 MHz	1-40 MHz	40-500 MHz			1-500 MHz	--	--	--	1-100 MHz	100-500 MHz		
30FB-10GANL	-1.0	-1.2	-2.0	-18(MIN)	-17+10log(f/40MHz)(MIN)			-22	--	--	--	-40	-30	1500	
	100 KHz	1-500 MHz	1 MHz	2-100 MHz	100-200 MHz	200-400 MHz	400-500 MHz	1-250 MHz	250-500 MHz	1-100 MHz	100-300 MHz	300-500 MHz	1-100 MHz	100-500 MHz	
30FB-13ANL	-3.0	-2.0	-22(TYP)	-25(TYP)	-22(TYP)	-11(TYP)	-8(TYP)	-30	-22	-35	-30	-25	-40	-30	1500

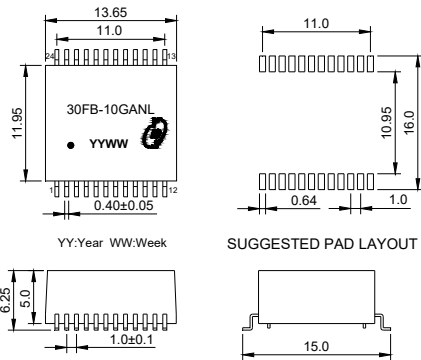


**ELECTRICAL SPECIFICATIONS@25°C**  
**Operating temperature -40°C to 85°C**

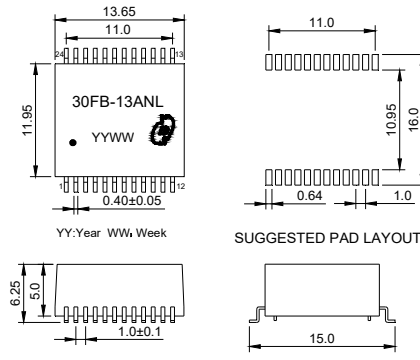
Part Number	Insertion Loss (dB TYP)			Return Loss (dB TYP @100 Ω)		CDMR (dB TYP)	CMR (dB TYP)			Crosstalk (dB TYP)		Hipot (Vrms MIN)
	1 - 300 MHz	300-400 MHz	400-500 MHz	1-40 MHz	40-500 MHz	1-500 MHz	--	--	--	1-100 MHz	100-500 MHz	
30FB-13CNL	-1.0	-1.2	-2.0	-18	-17+10log(f/40MHz)	-22	--	--	--	-40	-30	1500

**Mechanicals and Dimensions**

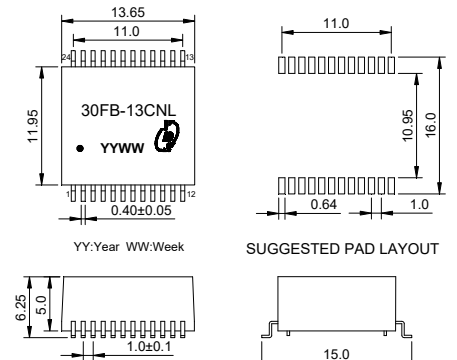
**30FB-10GANL**



**30FB-13ANL**

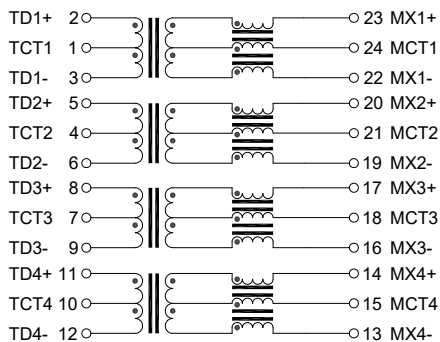


**30FB-13CNL**

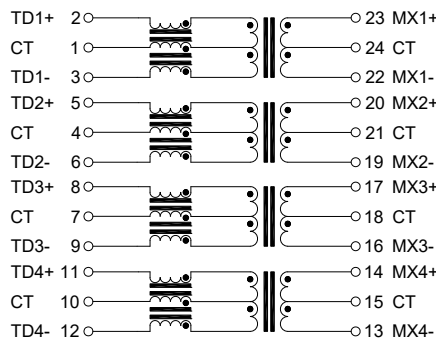


**Schematics**

**30FB-10GA**



**30FB-13A**



**30FB-13C**

