

### 1000BASE-TX MAGNETICS MODULES

#### Features:

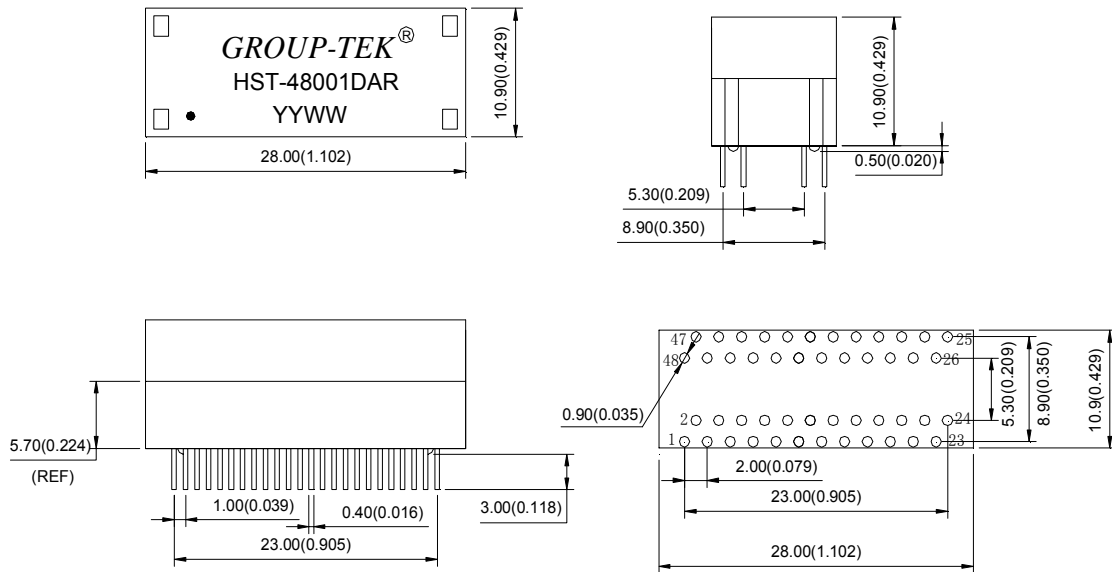


- Compliant with IEEE 802.3af standard for 1000Base-T.
- Suitable for PoE applications(350mA@48V continuous).
- Primary inductance(Lp)350uH min.@ 100KHz,0.1Vrms,8mA .
- LL:0.5uH Max @100KHz, 0.1V;Cww:30pF Max@100KHz, 0.1V
- Balance Inductance (BL) 0.1uH Max (Primary Short at 100kHz, 0.1V).
- Primary DCR:0.9ΩMax;Secondary DCR:1.2ΩMax.
- Storage Temperature -40°C to +85°C, 10%~90%RH .
- RoHS compliant.

#### Electrical Specification@25°C Operating Temperature 0 to +70°C

Part NO	Insertion Loss MHz (dB Max)	Return Loss MHz (dB Min)		CMRR MHz (dB Min)	Crosstalk MHz (dB Min)			Hipot (Vrms MIN)
		1-40	40-100		30	60	100	
HST-48001DAR	-1.0	-18	-12-20*lg(f/80)	-30	-40	-35	-30	1500VAC/1mA/60S

Dimension:mm(inch),Unless otherwise specified , all tolerance are+/-0.25(0.01)



SUGGESTED PCB LAYOUT

#### Schematic:

