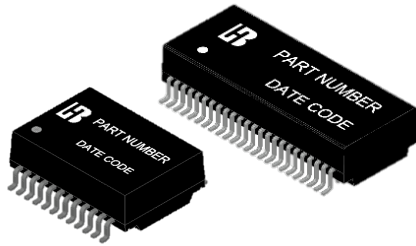


10GBase-T Magnetic Modules

T1SB01XX, T2SD02XX



- IEEE802.3an/af/at/bt Compliant Options
- Compatible with all Major PHYs
- RoHS compliant and Halogen Free
- Ideal for Commercial or Industrial switches and high-volume consumer applications

Electrical Specification @ 25°C (OCL@DC11mA)

PART NUMBER	Media side Inductance (@100KHz/0.1Ve) uH min	Insertion Loss dB max			Return Loss dB min			PoE (Current Per Pair mA)	Operating Temperature (°C)	Isolation (Pri:Sec)	Note
		1-100 MHz	100-400 MHz	500 MHz	1-40 MHz	40 < f ≤ 400 MHz	400 < f ≤ 500 MHz				
T1SB01RT	100	-1.0	-1.5	-2.0	-18	-(18-10 log10(f/40))	-(8-30 log10(f/400))	720	-40 to 90	1500Vrms	-
T2SD02RT	100	-1.0	-1.5	-2.0	-18	-(18-10 log10(f/40))	-(8-30 log10(f/400))	600	-40 to 90	1500Vrms	-

Electrical Specification @ 25°C (OCL@DC16mA)

PART NUMBER	Media side Inductance (@100KHz/0.1Ve) uH min	Insertion Loss dB max			Return Loss dB min			PoE (Current Per Pair mA)	Operating Temperature (°C)	Isolation (Pri:Sec)	Note
		1-100 MHz	100-400 MHz	500 MHz	1-40 MHz	40 < f ≤ 400 MHz	400 < f ≤ 500 MHz				
T1SB01RV	120	-1.0	-1.5	-2.0	-18	-(18-10 log10(f/40))	-(8-30 log10(f/400))	1000	-40 to 90	1500Vrms	-
T2SD02RV	120	-1.0	-1.5	-2.0	-18	-(18-10 log10(f/40))	-(8-30 log10(f/400))	1000	-40 to 105	1500Vrms	-

Electrical Specification @ 25°C

PART NUMBER	Media side Inductance (@100KHz/0.1Ve) uH min	Insertion Loss dB max			Return Loss dB min			PoE (Current Per Pair mA)	Operating Temperature (°C)	Isolation (Pri:Sec)	Note
		1-100 MHz	100-400 MHz	500 MHz	1-40 MHz	40 < f ≤ 400 MHz	400 < f ≤ 500 MHz				
T1SB01LN2	100	-1.0	-1.5	-2.0	-18	-(18-10 log10(f/40))	-(8-30 log10(f/400))	-	-40 to 90	1500Vrms	Surge DM/CM 2KV
T1SB01	100	-1.0	-1.5	-2.0	-18	-(18-10 log10(f/40))	-(8-30 log10(f/400))	-	-40 to 90	1500Vrms	-
T1SB01LN6	100	-1.0	-1.5	-2.0	-18	-(18-10 log10(f/40))	-(8-30 log10(f/400))	-	-40 to 90	4000Vrms	Surge DM/CM 6KV
T2SD02R	100	-1.0	-1.5	-2.0	-18	-(18-10 log10(f/40))	-(8-30 log10(f/400))	-	-40 to 90	1500Vrms	-
T2SD02LN6	100	-1.0	-1.5	-2.0	-18	-(18-10 log10(f/40))	-(8-30 log10(f/400))	-	-40 to 90	4000Vrms	Surge DM/CM 6KV

Note: Refer to the specification for detail

Process and Materials

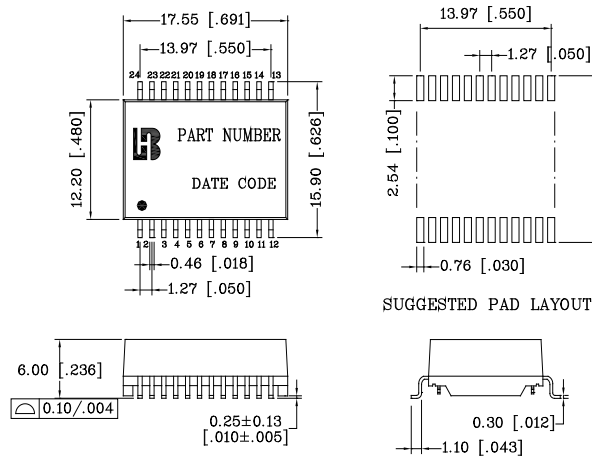
- Storage Temperature: Refer to the specification for details
- Compliance to J-STD:
 - J-STD-002: Solderability at 245°C Reflow Profile
 - J-STD-020: Moisture Sensitive Level 1
- All parts come in 13" (330mm) Diameter Tape and reel I - see page 3 for details
- Header: DAP (Diallyl Phthalate) with flammability Rating UL 94V-0 or better
- Lead Frame: Cooper Alloy
 - Underplated: Half Hard Ductile Nickel 40-118" (1.0-3.0um)
 - Over plated: 100% Tin electro-deposited per 240~400u"Min(6~10um)
 - Finish: Matte finish 100% Tin solder

10GBase-T Magnetic Modules

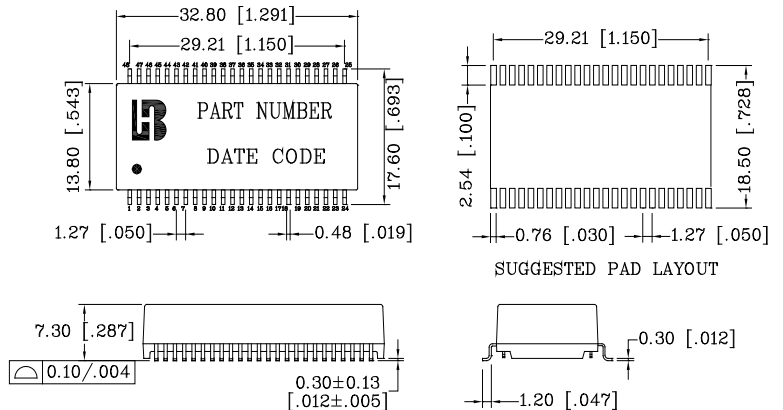
T1SB01XX, T2SD02XX

Mechanical

T1SB01XX



T2SD02XX

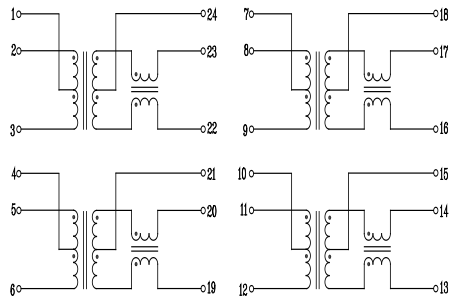


Dimensions: mm / [Inches]
Unless otherwise specified, all tolerances are:

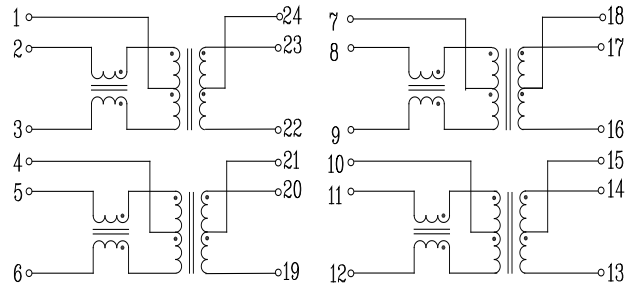
xx.xx ± 0.25 [.010]
0.xx ± 0.05 [.002]

Schematic

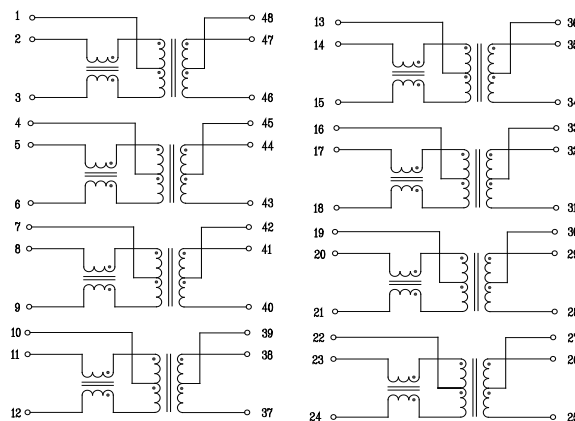
T1SB01



T1SB01LN2, T1SB01LN6, T1SB01RT, T1SB01RV



T2SD02R, T2SD02LN6, T2SD02RV, T2SD02RT

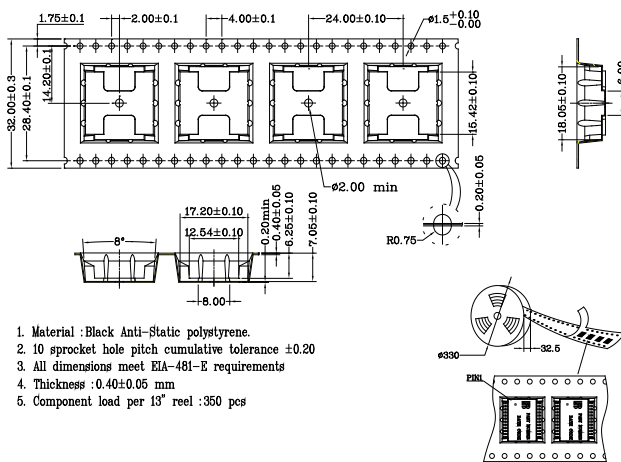


10G Base-T Magnetic Modules

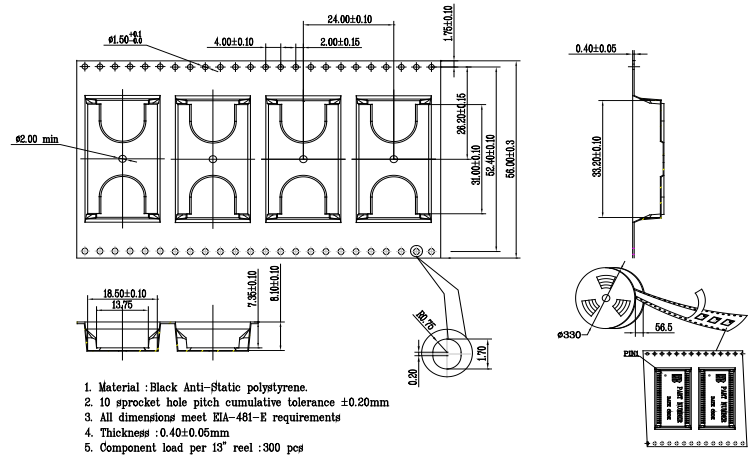
T1SB01XX, T2SD02XX

Tape & Reel

T1SD01XX

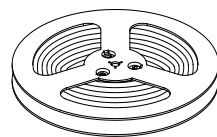


T2SD02XX

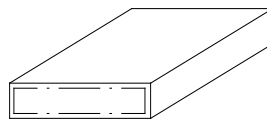


Carton Package

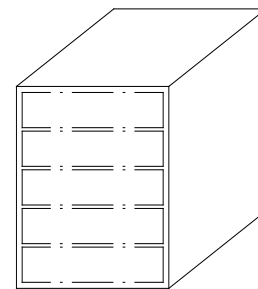
T1SB01XX



REEL



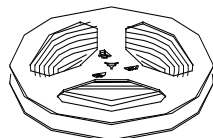
INNER BOX: 347x347x82



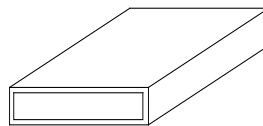
OUTER CARTON: 375x375x470

1. REEL=350PCS
1. INNER BOX=1 REEL=350PCS
1. OUTER CARTON=5 INNER BOXES=1750PCS

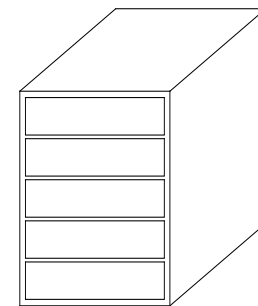
T2SD02XX



REEL



INNER BOX: 347x347x82



OUTER CARTON: 375x375x470

1. REEL=300PCS
1. INNER BOX=1 REEL=300PCS
1. OUTER CARTON=5 INNER BOXES=1500PCS

For More Information:

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