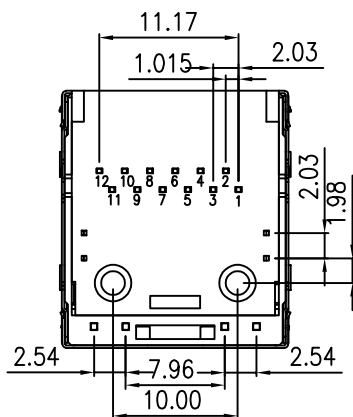
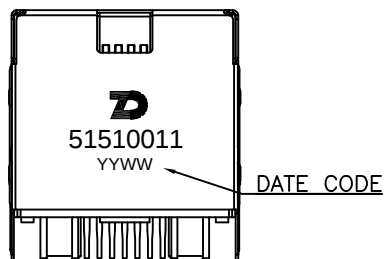
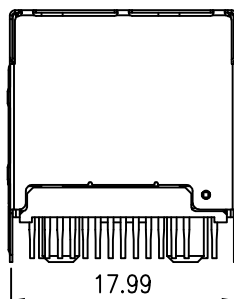
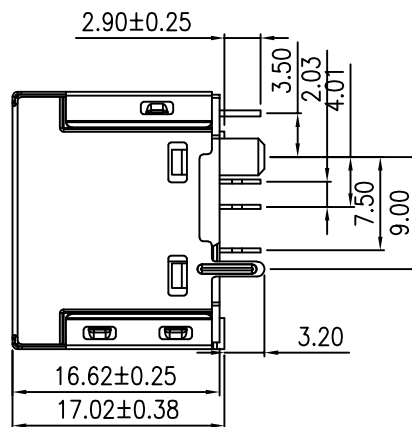
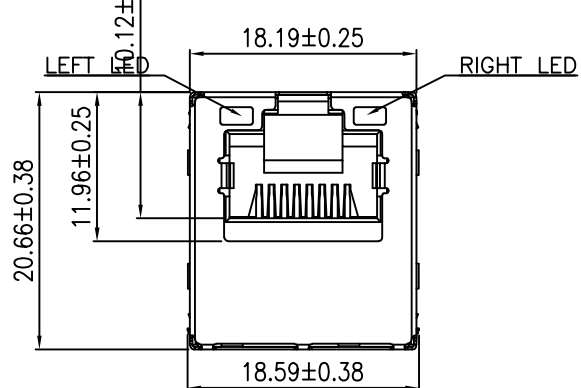


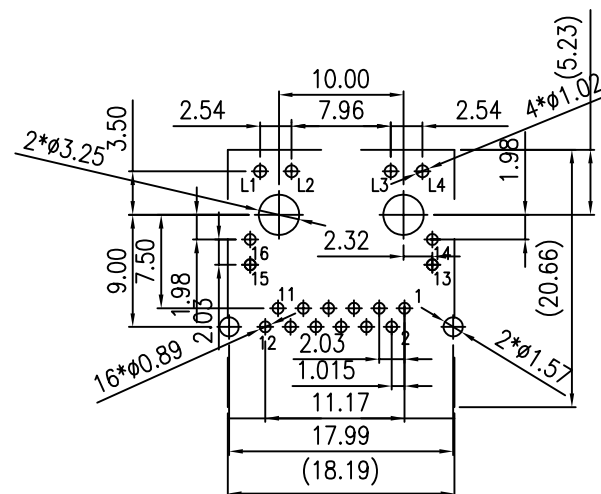
RoHS Compliant

Mechanical



Connect Material:

1. Housing: PA6T, UL94V-0, Color: Black;
2. Spacer: PA6T, UL94V-0, Color: Black;
3. Shield: SUS201 T=0.2mm, 30u" Min Nickel Overall Plated;
4. Input Terminal: C2680 T=0.35mm
5. Input And RJ45 Contact Terminal Plating: 50u"Min. Ni Under Plated Overall, 100u" Tin On Solder Area;
6. RJ45 Contacts Terminal: Phosphor Bronze C5191 T=0.35mm Selective 3u" Min Gold Plated On Contact Area;

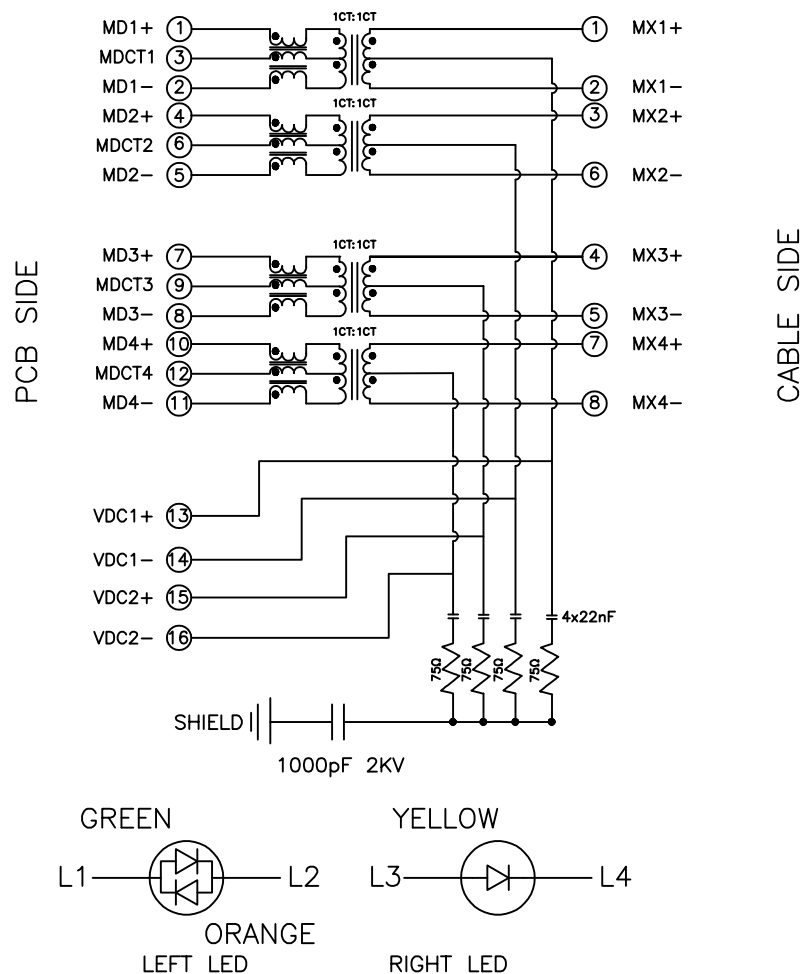


RECOMMENDED P.C.B LAYOUT(PCB THICKNESS: 1.6mm)
COMPONENT SIDE VIEW(TOLERANCE: ±0.05mm)

QC : Inspection Item	DIMENSION IN mm [Inch]		ZhenDeng Electronics Co.,Ltd		
	TOLERANCE UNLESS OTHERWISE SPECIFIED		TITLE		
	.X± 0.38	X.*± 2.0"	RJ45 180° 1x1 2.5G WITH POE		
	.XX± 0.20	.X.*± 1.0"	DRAWING NUMBER		
	.XXX± 0.10		51510011		
APPROVE	CHECK		DRAW	PROJ.	SHEET 1 OF 3
			CLT	SCALE 1:1	REV A
			2024,11,12		

RoHS Compliant

Schematic:



ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED
MEETS IEEE 802.3 SPECIFICATION

PARAMETER	SPECIFICATIONS	
OPERATING TEMPERATURE	-40°C TO +85°C	
TURNS RATIO	1.00 ± 2%	
POLARITY	PER SCHEMATIC	
INSERTION LOSS (SDD21&SDD12)	1-50MHz	50-125MHz
	-0.5 dB MAX	-1.0 dB MAX
PHY-SIDE RETURN LOSS (SDD11-Zref=100 OHMS ± 1%)	1-40MHz	40-200MHz
	-20 dB MIN	-20+15*LOG ₁₀ (f/40) dB MIN
LINE-SIDE RETURN LOSS (SDD22-Zref=100 OHMS ± 1%)	1-40MHz	40-200MHz
	-20 dB MIN	-20+15*LOG ₁₀ (f/40) dB MIN
INDUCTANCE (OCL)	120 uH MIN @ 100KHz, 100mV	
CROSSTALK, ADJACENT CHANNELS (SDD21-ADJ.)	1-125MHz	
	-30 dB MIN	
COMMON MODE REJECTION RATIO (SCC21)	30-200MHz	
	-30 dB MIN	
COMM. TO DIFF REJECTION RATIO (SDC12)	10-125MHz	
	-35+f/35 dB MIN	
INPUT-OUTPUT ISOLATION	2250 VDC FOR 60 SECONDS	

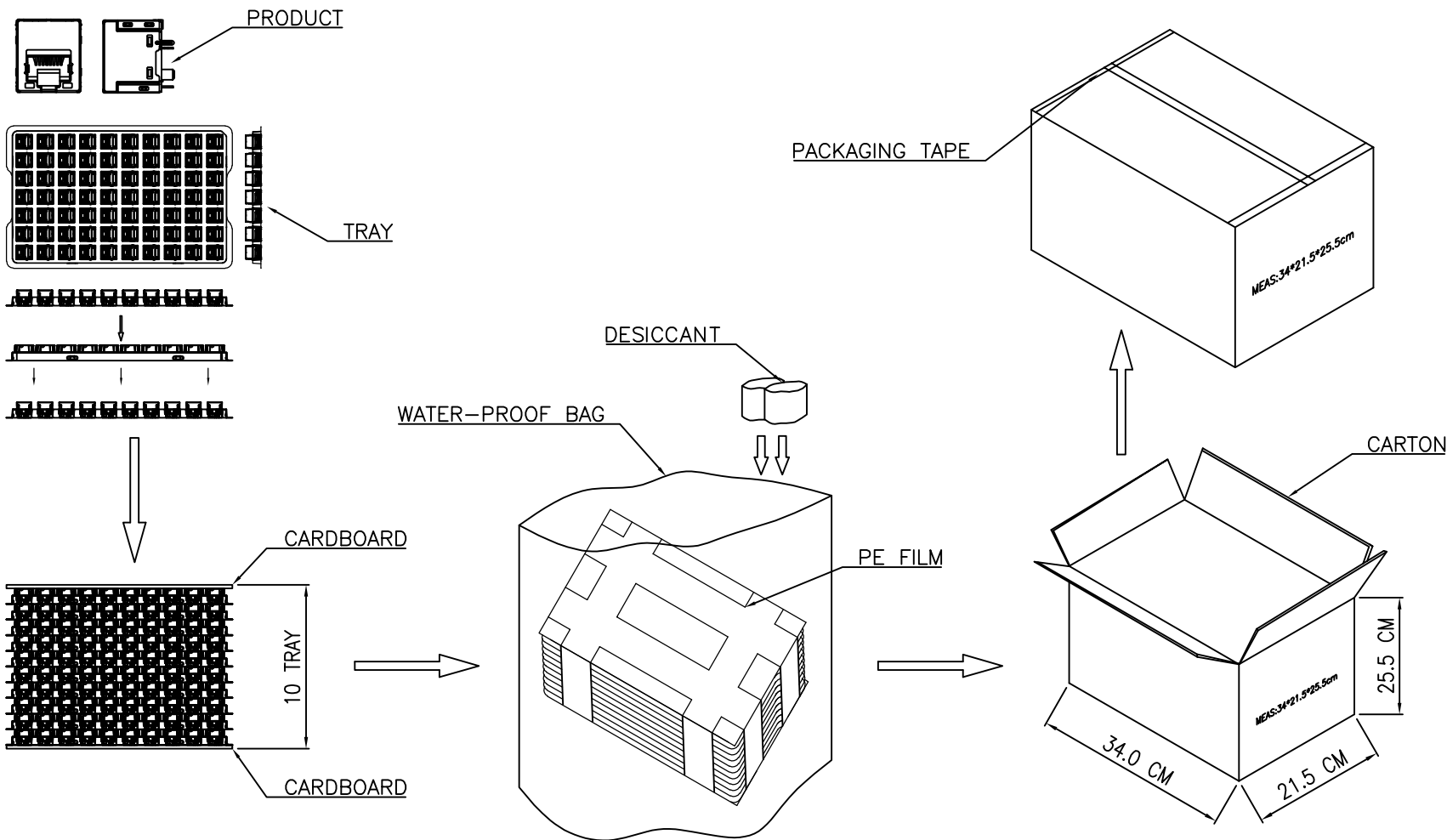
NOTE: f IS FREQUENCY IN MHZ.

DC current:1A MAX @57VDC continuous.
Operating and Storage Temperature:
Operating Temperature : -40°C to +85°C.
Storage Temperature : -40°C to +85°C.
Wave soldering peak temperature:260°C.

QC : Inspection Item	DIMENSION IN mm [Inch]		ZhenDeng Electronics Co.,Ltd		
	TOLERANCE UNLESS OTHERWISE SPECIFIED		TITLE		
	.X± 0.38	X.*± 2.0*	RJ45 180° 1x1 2.5G WITH POE		
	.XX± 0.20	.X*± 1.0*	DRAWING NUMBER		
	.XXX± 0.10		51510011		
APPROVE	CHECK	DRAW	CLT	PROJ.	SHEET 2 OF 3
		2024,11,12		SCALE 1:1	REV A
				SIZE A3	

RoHS Compliant

REV	MODIFICATION	DATE	DRAW	APPROVE



NOTES:

1. PRIMARY PACKING: 70PCS/TRAY
2. SECONDARY PACKING: 10TRAY/CARTON(700PCS/CARTON)
3. CARTON SIZE: 340x215x255mm

QC : Inspection Item	DIMENSION IN mm [Inch]		ZhenDeng Electronics Co.,Ltd		
	TOLERANCE UNLESS OTHERWISE SPECIFIED		TITLE RJ45 1X1 180°W/POE PACKING		
	.X± 0.38	X.*± 2.0'	DRAWING NUMBER		
	.XX± 0.20	.X*± 1.0'	180°W/POE PACKING		
	.XXX± 0.10				
APPROVE	CHECK		DRAW CLT 2024,11,12	PROJ. SCALE 1:1	SHEET 1 OF 3 SIZE A3 REV B