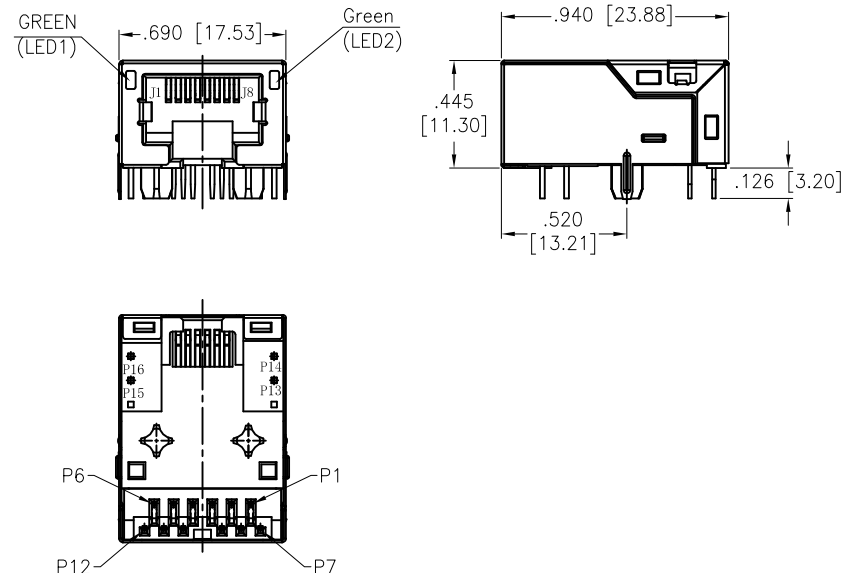
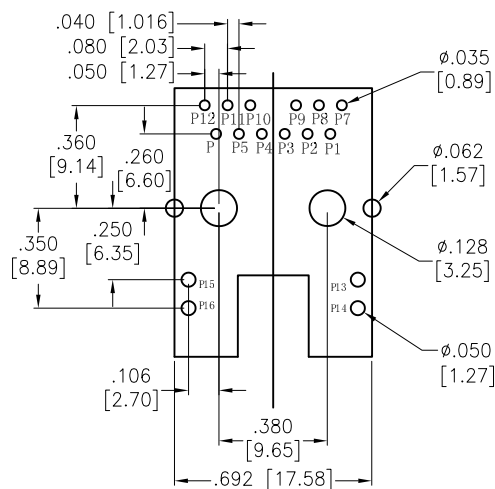


APPROVED: _____

DATE: _____ TITLE: _____

Rev	AWO #	Description	Date	Appr
-		RELEASED	5/15/24	
A		UPDATED TITLE	6/3/24	JJ/JL
B		UPDATED DRAWING	12/1/25	LH/MC



SPECIFICATIONS:

Material:

Insulator: Hi-Temp Thermoplastic, rated UL 94V-0

Insulator color: Black

Contacts: Phosphor Bronze

Shield: Brass, Nickel plated

Plating:

Round contact

Gold over Nickel underplate overall

Flat contact

Gold over Nickel underplate on contact area,

Tin over Nickel underplate on solder tails

Electrical:

Voltage rating: 150 VAC

Contact Resistance: 20 mohms max

Insulation resistance: 500 Mohms min

Dielectric withstanding voltage: 2250 VDC for 1 minute

Temperature Rating:

Operating temperature: -40°C to +85°C

Environmental:

Lead free, RoHS compliant.



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS
ARE INCHES [MM]. TOLERANCES: EXCEPT AS NOTED

.X	± .10	Ø.X	± .10
INCHES .XX	± .020	HOLES Ø.XX	± .015
.XXX	± .015	Ø.XXX	± .010

DRAWN WX 5/15/24

CHECKED JL 5/15/24

APPROVED

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TITLE MODULAR JACK, 1 PORT, 8P8C, R/A
W/ LED1 GREEN, LED2 GREEN, 25G BASE-T

SIZE X PART NO. MTJ-88NX1-FS-VLD-M245AC-HT-WOT REV. B

REF: S00005C SCALE: NTS SHEET 1 OF 2

6

5

4

3

2

1

Rev

AWO #

Description

Date

Appr

SEE SHT 1 OF 2 FOR REVISION

APPROVED: _____

DATE: _____ TITLE: _____

PHY Side
(Input)

TRD1+ P8
TRCT1 P7
TRD1- P9
TRD2+ P3
TRCT2 P1
TRD2- P2
TRD3+ P4
TRCT3 P6
TRD3- P5
TRD4+ P11
TRCT4 P12
TRD4- P10

1CT:1CT

1CT:1CT

1CT:1CT

1CT:1CT

75 OHM

75 OHM

75 OHM

75 OHM

1000pF 2kv

SHIELD

Cable Side
(RJ 45 Output)

J1 TRP1+
J2 TRP1-
J3 TRP2+
J6 TRP2-
J4 TRP3+
J5 TRP3-
J7 TRP4+
J8 TRP4-

P13
P14
P15
P16

Pin

Green

Pin

Green

P13

-

P15

-

P14

+

P16

+

Electronical Specifications:

PARAMETER	SPECIFICATIONS				
TURN'S RATIO	1.00 ± 5%				
POLARITY	PER SCHEMATIC				
INSERTION LOSS (DATA CHANNELS)	1-1250 MHz				
	-2.0 dB MAX				
RETURN LOSS LOAD 100 OHMS	1-40 MHz	40 MHz-400 MHz	400 MHz-1250 MHz		
	-16 dB MIN	-8 dB MIN	-8 dB MIN		
INDUCTANCE (OCL)	100uH MIN @100KHZ,0.1V				
COMMON MODE REJECTION RATIO	1-100 MHz	100-1250 MHz			
	-30 dB MIN	-20 dB MIN			
COMMON TO DIFFERENTIAL MODE REJECTION (CDMR)	1-100 MHz	100-1250 MHz			
	-30 dB MIN	-20 dB MIN			
CROSS TALK	40-1250MHz				
	-43.1+20LOG/10(f/100)dB				
INPUT-OUTPUT ISOLATION	2250 VDC MIN @ 60 SECONDS				

LED SPECIFICATION

STANDARD LED	WAVELENGTH	Forward Current	Forward V(max)	TYP
GREEN	565~570nm	20 mA	2.4V	2.1V

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE INCHES [MM]. TOLERANCES: EXCEPT AS NOTED

.X	± .10	Ø.X	±.10
INCHES .XX	± .020	HOLES Ø.XX	±.015
.XXX	± .015	Ø.XXX	±.010

DRAWN

WX

5/15/24

CHECKED

JL

5/15/24

APPROVED

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TITLE

MODULAR JACK, 1 PORT, 8P8C, R/A
W/ LED1 GREEN, LED2 GREEN, 25G BASE-T

SIZE

X

PART NO.

MTJ-88NX1-FS-VLD-M245AC-HT-WOT

REV.

B

REF:

S00005C

SCALE:

NTS

SHEET

2 OF 2