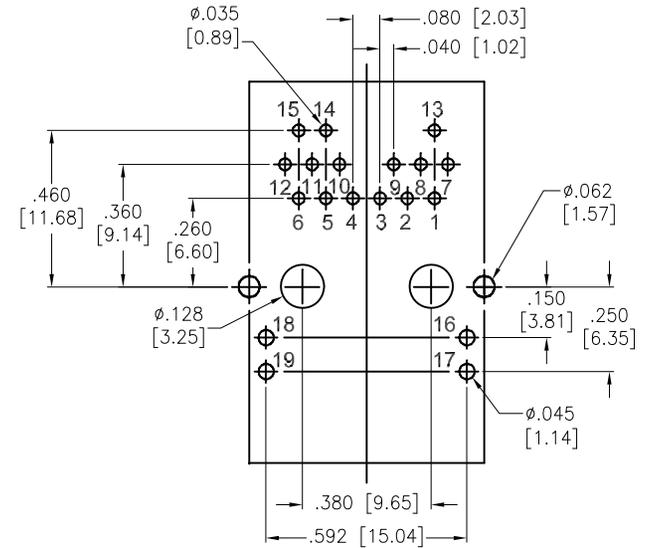
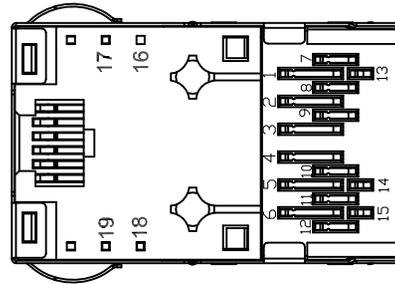
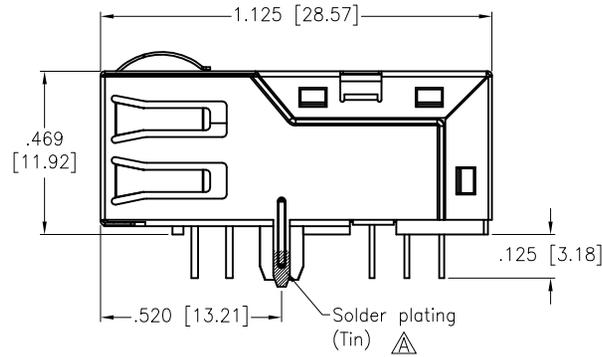
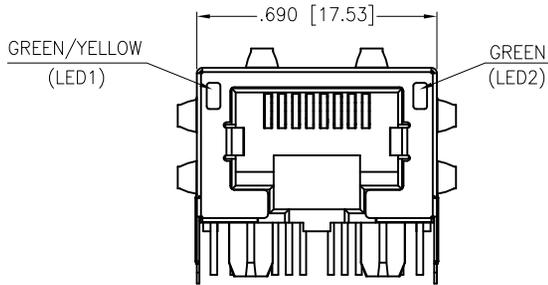


APPROVED: \_\_\_\_\_  
 DATE: \_\_\_\_\_ TITLE: \_\_\_\_\_

Rev	AWO #	Description	Date	Appr
-		RELEASED	11/13/18	
A		UPDATE DRAWING	5/23/19	AY/RC



RECOMMENDED PCB LAYOUT

**SPECIFICATIONS:**

Material:  
 Insulator: 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.



(10G BASE-T)

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

.X ± .10	∅X ± .10
.XX ± .020	∅XX ± .015
.XXX ± .015	∅XXX ± .010



APPROVALS		DATE
DRAWN	AY	11/13/18
CHECKED	NL	11/13/18
APPROVED		

TITLE		
MODULAR JACK, 1 PORT, 8P, FULL SHIELD W/LED1 GREEN/YELLOW, LED2 GREEN, 10G BASE-T		
SIZE	PART NO.	REV.
X	MTJ-88AGX1-FS-PG-VL38-M368C	A
REF: S00005C	SCALE: NTS	SHEET 1 OF 2

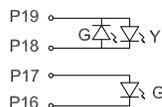
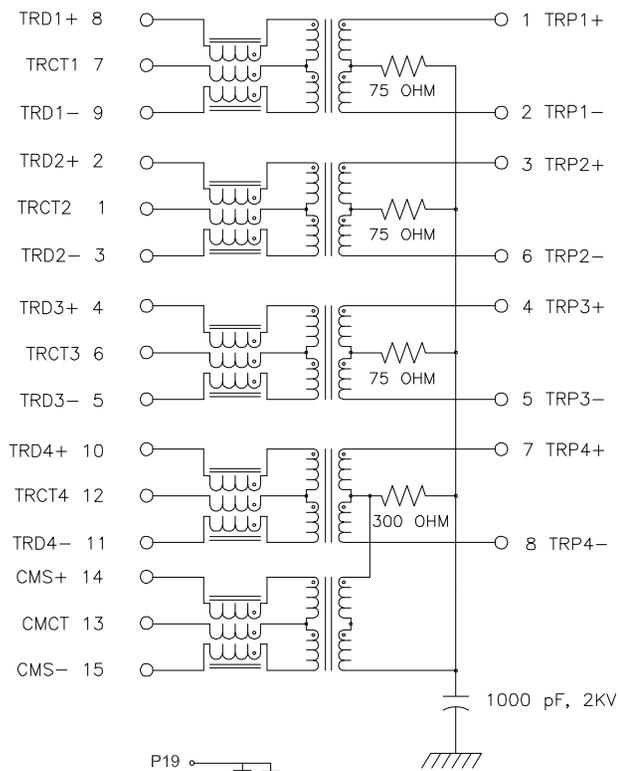
APPROVED: \_\_\_\_\_

DATE: \_\_\_\_\_ TITLE: \_\_\_\_\_

Rev	AWO #	Description	Date	Appr
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SEE SHT 1 OF 2 FOR REVISION

### Circuit Schematic:



Pin	Green	Pin	Green	Yellow
P16	-	P18	+	-
P17	+	P19	-	+

### ELECTRICAL SPECIFICATIONS @ 25°C:

PARAMETER	SPECIFICATIONS		
URNS RATIO	1.00 ± 2%		
POLARITY	PER SCHEMATIC		
INSERTION LOSS (DATA CHANNELS)	100 KHz	1-400 MHz	
	-3.0 dB MAX	-2.0 dB MAX (-1.4dB TYP)	
RETURN LOSS (Z OUT=100 OHM ±1%)	1-40 MHz	40 MHz-400 MHz	400 MHz-500 MHz
	-16 dB MIN	-16+10LOG(f/40)dB	-6+30LOG(f/400)dB
INDUCTANCE (OCL)	160 uH MIN @ 100 KHz, 100 mV		
CROSSTALK, ADJACENT CHANNELS	1-100 MHz	100-500 MHz	
	-28 dB MIN	-19 dB MIN	
COMMON MODE REJECTION RATIO	1-40 MHz	40-100 MHz	100-500 MHz
	-30 dB MIN	-28 dB MIN	-26 dB MIN
COMMON TO DIFFERENTIAL MODE REJECTION (CDMR)	1-250 MHz	250-500 MHz	
	-30 dB MIN	-22 dB MIN	
HIPOT-OUTPUT ISOLATION	2250 VDC MIN @ 60 SECONDS		

NOTE: f IS FREQUENCY IN MHZ.

(10G BASE-T)

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

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



TITLE  
MODULAR JACK, 1 PORT, 8P, FULL SHIELD  
W/LED1 GREEN/YELLOW, LED2 GREEN, 10G BASE-T

APPROVALS		DATE
DRAWN	AY	11/13/18
CHECKED	NL	11/13/18
APPROVED		

SIZE	PART NO.	REV.
X	MTJ-88AGX1-FS-PG-VL38-M368C	A
REF:	S00005C	SCALE: NTS
		SHEET 2 OF 2