![TE connectivity]

My Cart | My Part Lists | Sign In/Register   **English** (Change)

Have a Question?
Chat with a Product
Information Specialist   What can we help you find?

| Products | Industries | Resources | About TE | My Account | Innovation | Support Center |

2-406549-5 Product Details

Share   Print   Email

2-406549-5

TE Internal Number: 2-406549-5

✔ Active

📄 View 3D PDF

PCB Mounted Jacks - Single Port, Multi-port and Stacked

🌿 Always EU RoHS/ELV Compliant

(Statement of Compliance)

Product Highlights:
- Connector
- Preloaded
- Single Port Configuration
- 1 x 1 Jack Configuration
- Jack Type = RJ45

View all Features

Quick Links
- Pricing & Availability
- Search for Tooling
- Product Feature Selector
- Contact Us About This Product

Add to My Part List   Request Sample   Find Similar Products

Buy Product

Documentation & Additional Information

Product Drawings:
- INVERTED MODULAR JACK ASSEMBLY, 1X1, SHIELDED, PANEL... (PDF, English)

Catalog Pages/Data Sheets:
- None Available

Product Specifications:
- High Performance Modular Plugs & Jacks, PCB Mounted (PDF, English)

Application Specifications:
- Modular Jacks (PDF, English)

Instruction Sheets:
- None Available

CAD Files: (CAD Format & Compression Information)
- 2D Drawing (DXF, Version R1)
- 3D Model (IGES, Version R1)
- 3D Model (STEP, Version R1)

List all Documents

Additional Information:
- Product Line Information

Related Products:
- Tooling

Product Features (Please use the Product Drawing for all design activity)

Product Type Features:
- Product Type = Connector
- Jack Type = RJ45
- PCB Mounting Orientation = Side Entry (Right Angle)
- PCB Mount Style = Through Hole
- Performance Category = Cat 5
- LED = With
- Grounding Options = Panel Ground and PCB Ground
- Panel Stops = Without
- Keyed = No
- Profile = Standard
- Color = Black

Mechanical Attachment:
- Panel Mount Retention = With

Housing Features:
- Housing Material = High Temperature Thermoplastic

Configuration Features:
- Preloaded = Yes
- Port Configuration = Single
- Jack Configuration = 1 x 1
- Number of Positions = 8
- Shielded = Yes
- Number of Contacts Loaded = 8
- Number of PCB Ground Tabs = 2
- Panel Ground Location = Top and Side, Top

Industry Standards:
- RoHS/ELV Compliance = RoHS compliant, ELV compliant
- Lead Free Solder Processes = Wave solder capable

- Flanged = No

Termination Features:
- Termination Method to PC Board = Solder

Dimensions:
- Height (mm [in]) = 13.34 [0.525]
- PCB Tail Length (mm [in]) = 2.54 [0.100]
- PCB Thickness, Recommended (mm [in]) = 1.57 [0.062]

Body Features:
- Inverted Jack Face = Yes
- Shield Plating = Tin
- Shield Material = Copper Alloy
- PCB Ground Tab Location (mm [in]) = -3.43 [-0.135]

Contact Features:
- Solder Tail Contact Plating = Matte Tin over Nickel
- Contact Plating, Mating Area, Material = Gold (50)
- Contact Base Material = Phosphor Bronze

to 240°C, Wave solder capable to 260°C, Wave solder capable to 265°C
- RoHS/ELV Compliance History = Always was RoHS compliant
- UL Flammability Rating = UL 94V-0

Identification Marking:
- LED Position 1 Color = Green
- LED Position 2 Color = Green
- LED Position 3 Color = None

Packaging Features:
- Packaging Method = Tray

Product Availability:
- Region = Asia, North America

Other:
- Brand = AMP
- Comment = Recommended applications: Fast Ethernet, 10Base-T Ethernet, and 10/100 Base-T Ethernet (Cat 5 on two pair 1/2, 3/6).

LOC	DIST	REVISIONS				
AA	00					
		P	LTR	DESCRIPTION	DATE	DWN	APVD
		R9	ECR-11-005509		18FEB2011	JJ	MQW
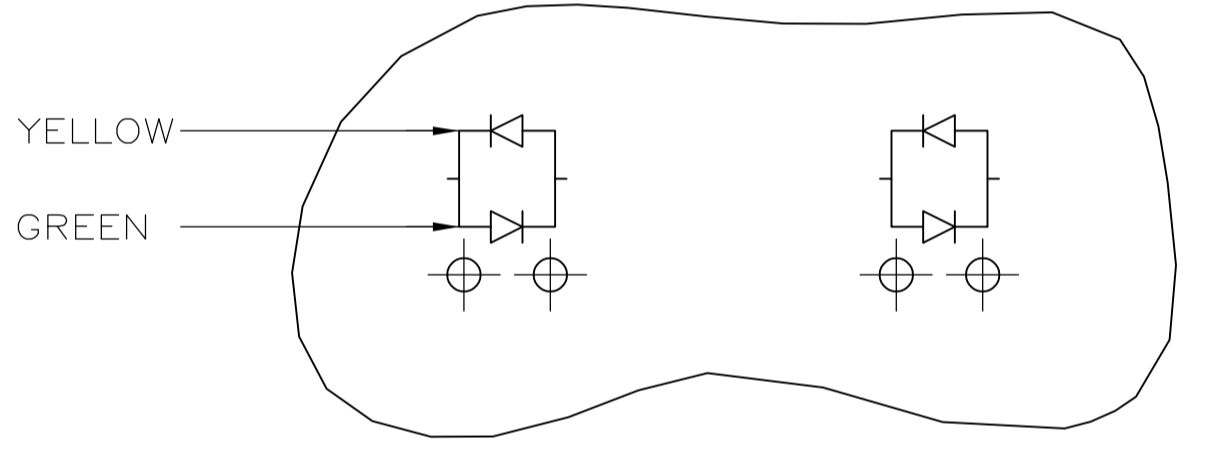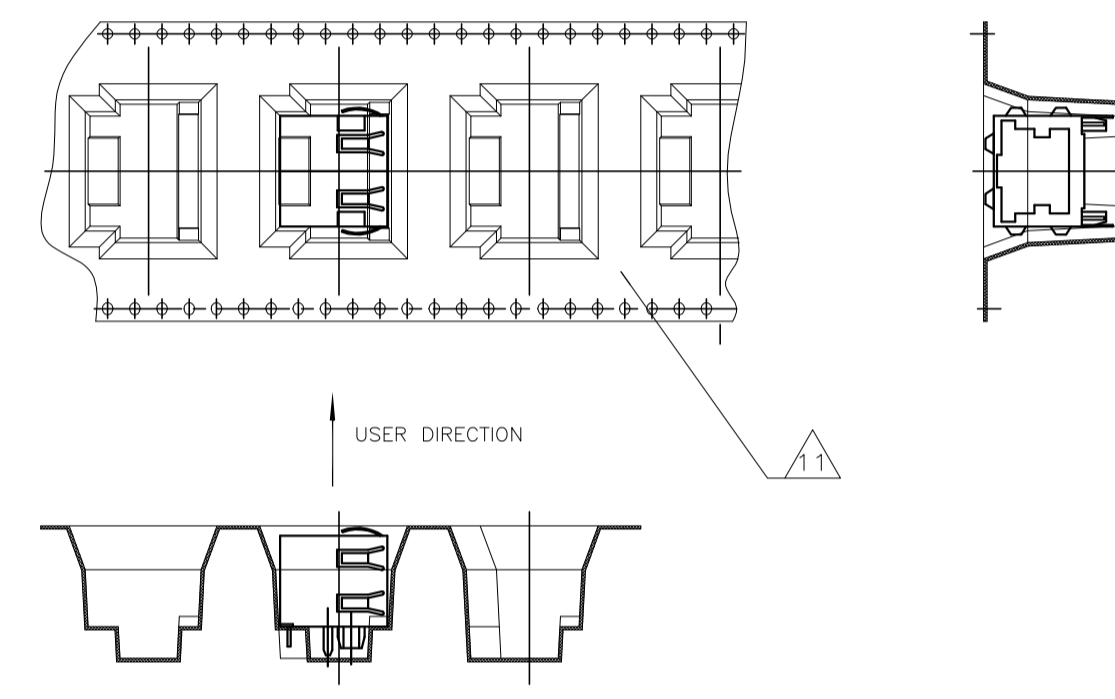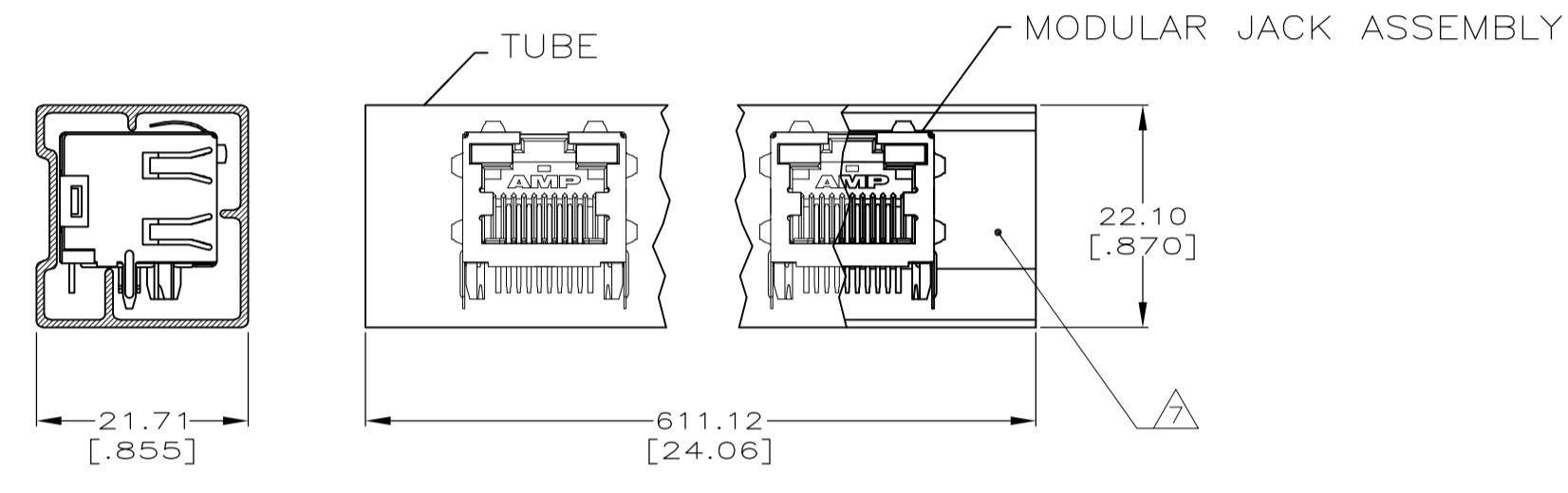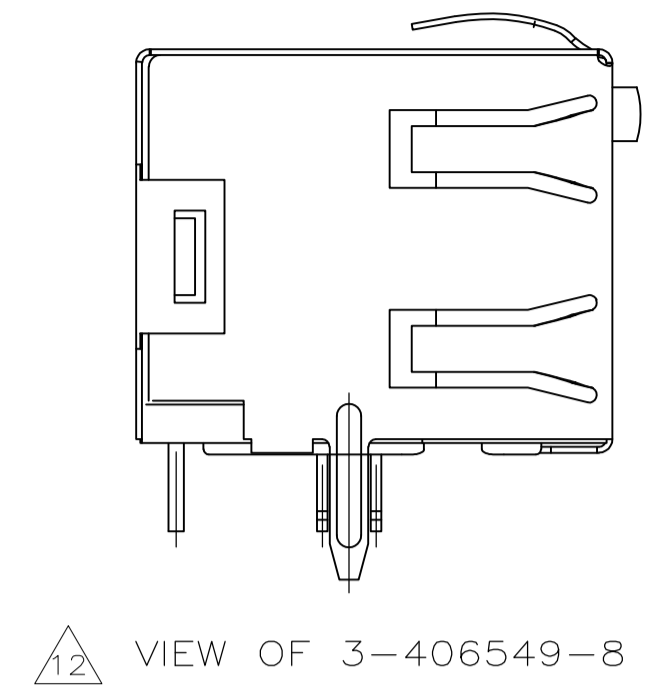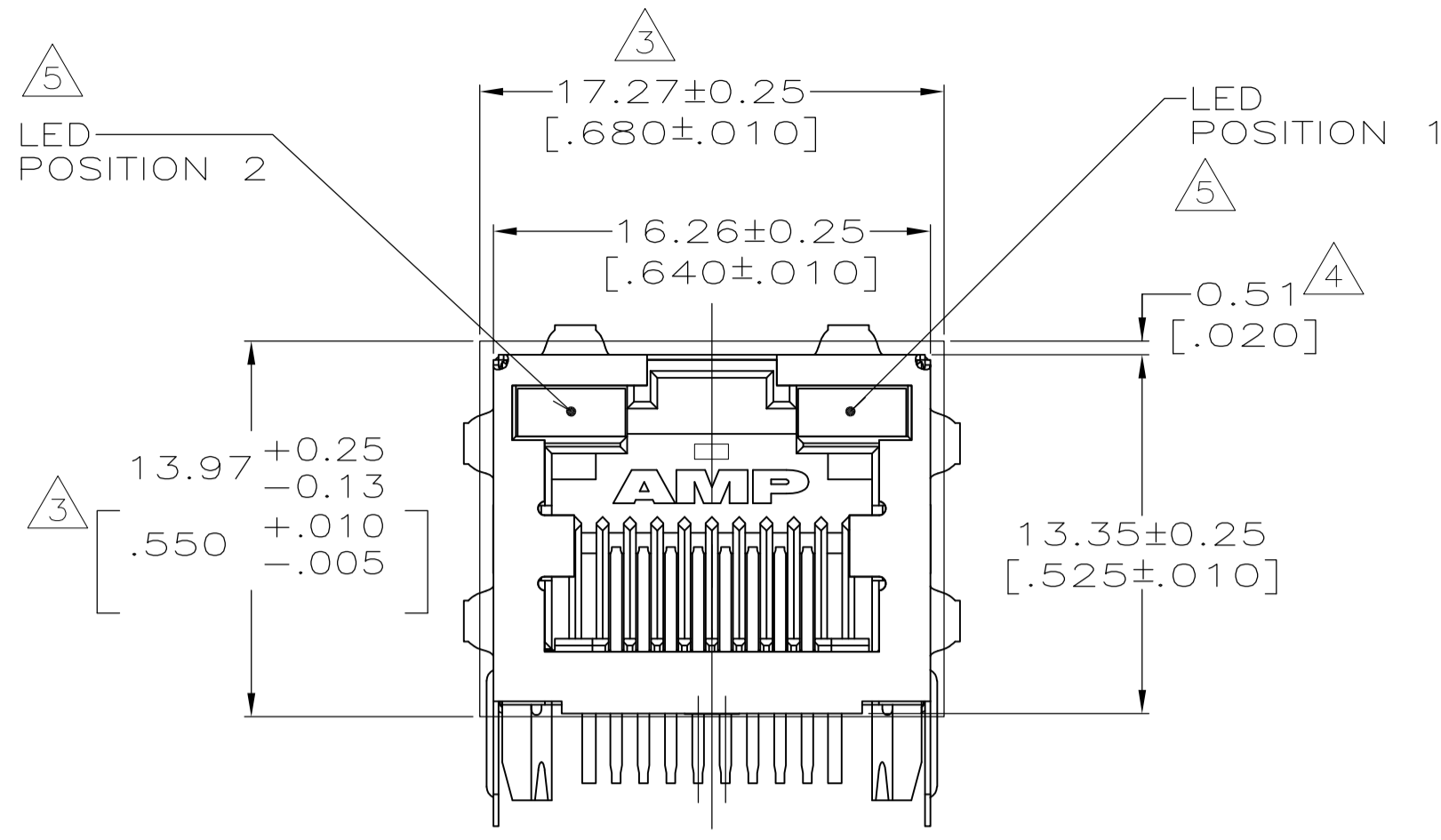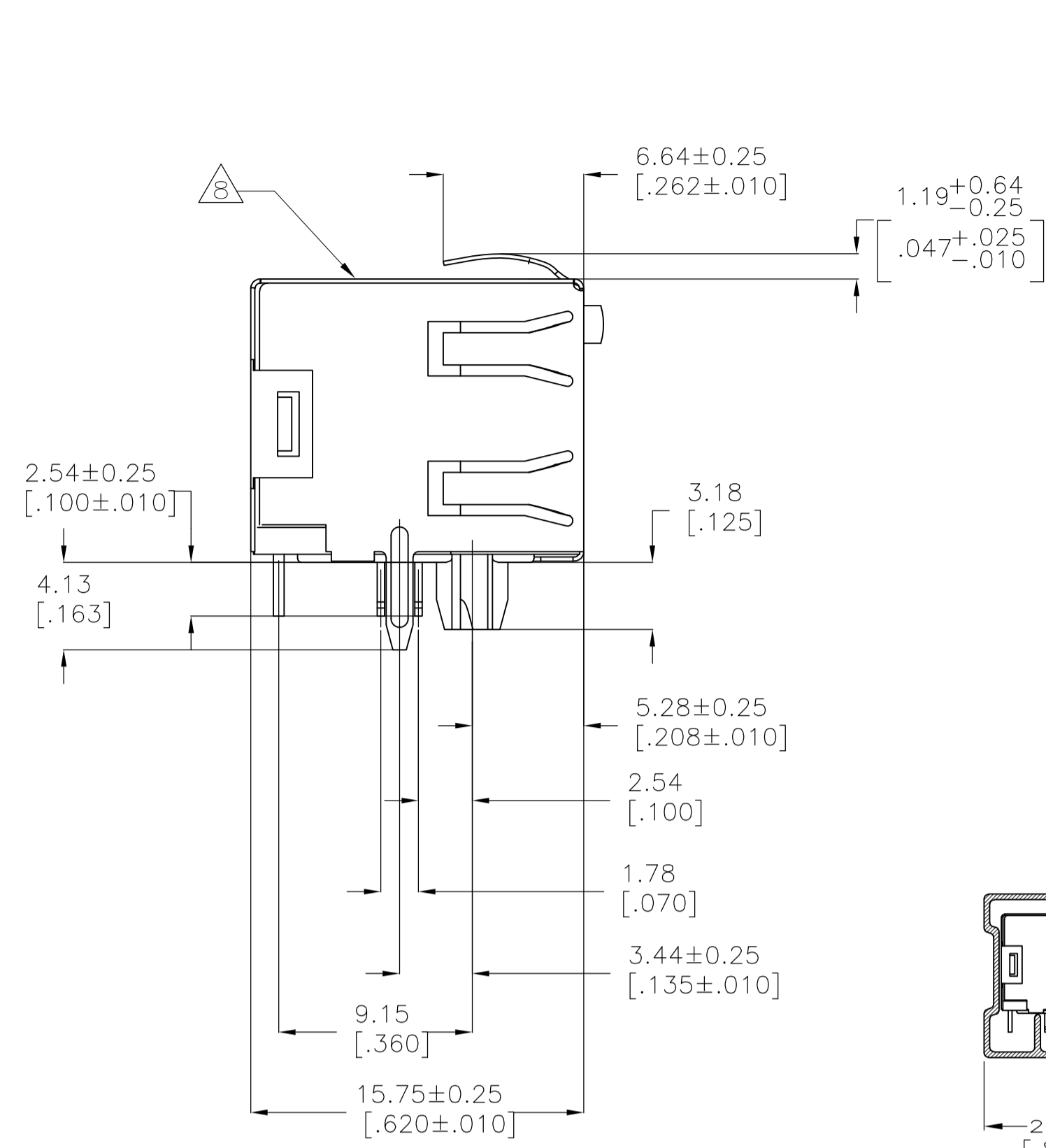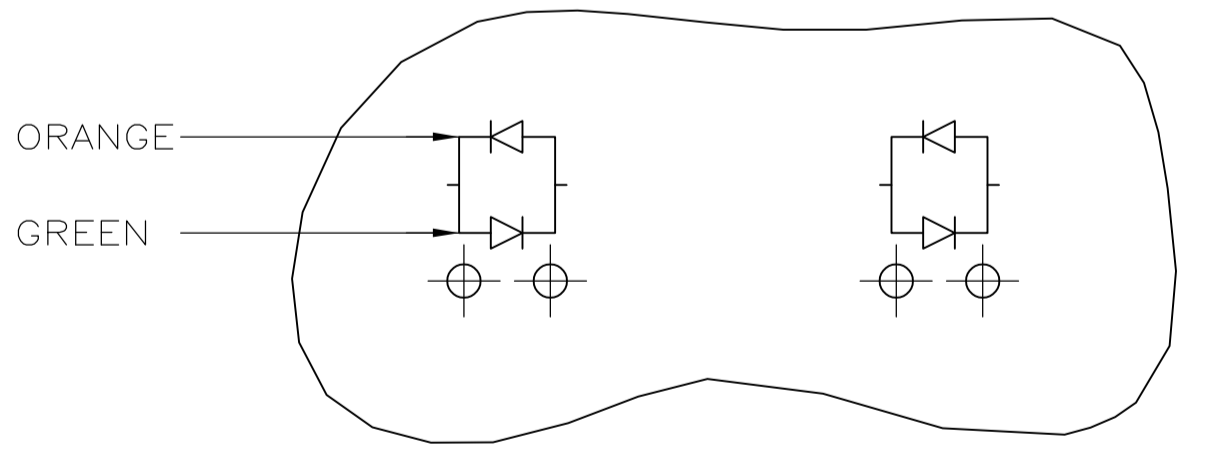
Notes / Material callouts:

1. MATERIAL: HOUSING - HIGH TEMPERATURE THERMOPLASTIC, BLACK, UL94V-0.
TERMINALS - 0.36[.014] THICK PHOS BRONZE PLATED WITH 3.81μm[.000150] MINIMUM THICK (SEE P/N TABLE) IN SOLDER AREA. 1.27μm [.000050] MINIMUM GOLD IN LOCALIZED PLATE AREA. ENTIRE TERMINAL PLATED WITH 1.27μm [.000050] MINIMUM THICK NICKEL.
SHIELD - 0.196[.0077] THICK COPPER ZINC ALLOY PREPLATED WITH 1.27μm[.000050] MINIMUM SATIN NICKEL WITH 2.03μm[.000080] MINIMUM TIN POST DIPPED ON PCB GROUND TABS.
LIGHT EMITTING DIODE (LED) - DIFFUSED EPOXY LENS, 0.51 x 0.51[.020 x .020] CARBON STEEL WIREFRAME LEADS PLATED WITH 8.89μm[.000350] TIN/COPPER OVER 2.03[000080] SILVER OVER 1.02μm[.000040] NICKEL UNDERPLATE OVER 1.02μm[.000040] COPPER UNDERPLATE.

2. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUBPART F.

3. SUGGESTED PANEL OPENING DIMENSIONS.

4. SUGGESTED CLEARANCE BETWEEN TOP OF CONNECTOR AND TOP PANEL OPENING.

5. SEE TABLE FOR COLOR OF LEDS AND NUMBER REQUIRED.

6. THIS MODULAR JACK WITH INTEGRATED LED IS NOT IR REFLOW SOLDERING PROCESS COMPATIBLE.

7. PACKAGED 30 PIECES PER TUBE, SEE DETAIL "A".

8. MANUFACTURING DATE CODE:
LOCATED APPROX. AS SHOWN.
FIRST 2 DIGITS = LAST 2 DIGITS OF YEAR.
NEXT 2 DIGITS = MANUFACTURING WORK WEEK.
LAST DIGIT = DAY OF WEEK WITH SUNDAY = 1.

9. THE PART IS PRELIMINARY.

10. OBSOLETE PARTS: OBSOLETE CIS STREAMLINING PER D.RENAUD/D.SINISI

11. TAPE REEL PACKAGE ,SEE DETAIL B.

12. WITHOUT PLASTIC POST, SEE VIEW OF 3-406549-8.

Dimensions (left views):
6.64±0.25 [.262±.010]
1.19 +0.64 -0.25 [.047 +.025 -.010]
2.54±0.25 [.100±.010]
3.18 [.125]
4.13 [.163]
5.28±0.25 [.208±.010]
2.54 [.100]
1.78 [.070]
3.44±0.25 [.135±.010]
9.15 [.360]
15.75±0.25 [.620±.010]

Top view:
17.27±0.25 [.680±.010]
16.26±0.25 [.640±.010]
0.51 [.020]
13.97 +0.25 -0.13 [.550 +.010 -.005]
13.35±0.25 [.525±.010]
LED POSITION 2
LED POSITION 1
VIEW OF 3-406549-8

DETAIL A
TUBE PACKAGE
SCALE 2:1
TUBE
MODULAR JACK ASSEMBLY
22.10 [.870]
21.71 [.855]
611.12 [24.06]

DETAIL B
TAPE REEL PACKAGE
SCALE 2:1
USER DIRECTION

LED CURRENT DIAGRAM
406549-8, 2-406549-8
YELLOW
GREEN

LED CURRENT DIAGRAM
2-406549-7 ONLY
ORANGE
GREEN

PCB layout:
13.72 [.540]
2.29 [.090]
0.51 [.020]
ø0.89±0.08 [ø.035±.003] 8 PLC
⊕ ø0.10[.004] M Z YM XM
ø0.89±0.08 [ø.035±.003] 4 PLC
⊕ ø0.10[.004] M Z YM XM
ø1.57±0.08 [ø.062±.003] 2 PLC
⊕ ø0.10[.004] M Z YM XM
(+) ANODE 2 PLC
1.78 [.070]
9.14 [.360]
2.54 [.100]
3.43 [.135]
TO BE DETERMINED BY CUSTOMER
ø3.25 +0.05 -0.08 [ø.128 +.002 -.003]
ø3.25 +0.05 -0.08 [ø.128 +.002 -.003]
⊕ ø0.10[.004] M Z YM
1.02 [.040]
2.03 [.080] TYP
1.78 [.070] 2 PLC
2.79 [.110]
12.70 [.500]
-X- -Y- -Z-
8 1

RECOMMENDED PRINTED CIRCUIT BOARD LAYOUT
(COMPONENT SIDE)
108-1163-4

TERMINAL LEAD PLATING	PACKAGING	INDICATOR COLOR		PART NUMBER
		POSITION 2	POSITION 1	
MATTE TIN	TAPE REEL	YELLOW/GREEN	YELLOW/GREEN	3-406549-8
MATTE TIN	TRAY	–	GREEN/RED	3-406549-3
MATTE TIN	TRAY	RED	GREEN	3-406549-2
MATTE TIN	TUBE	YELLOW	GREEN	3-406549-1
MATTE TIN	TRAY	ORANGE/GREEN	GREEN	3-406549-0
MATTE TIN	TRAY	ORANGE/GREEN	YELLOW	2-406549-9
MATTE TIN	TRAY	YELLOW/GREEN	YELLOW/GREEN	2-406549-8
MATTE TIN	TRAY	ORANGE/GREEN	ORANGE/GREEN	2-406549-7
OBSOLETE MATTE TIN	TRAY	YELLOW	YELLOW	2-406549-6
MATTE TIN	TRAY	GREEN	GREEN	2-406549-5
MATTE TIN	TRAY	GREEN	YELLOW	2-406549-4
OBSOLETE MATTE TIN	TRAY	YELLOW	–	2-406549-3
MATTE TIN	TRAY	–	GREEN	2-406549-2
MATTE TIN	TRAY	YELLOW	GREEN	2-406549-1
TIN-LEAD	TRAY	YELLOW/GREEN	YELLOW/GREEN	406549-8
OBSOLETE TIN-LEAD	TRAY	YELLOW	YELLOW	406549-6
TIN-LEAD	TRAY	GREEN	GREEN	406549-5
TIN-LEAD	TRAY	GREEN	YELLOW	406549-4
OBSOLETE TIN-LEAD	TRAY	YELLOW	–	406549-3
TIN-LEAD	TRAY	–	GREEN	406549-2
TIN-LEAD	TRAY	YELLOW	GREEN	406549-1