

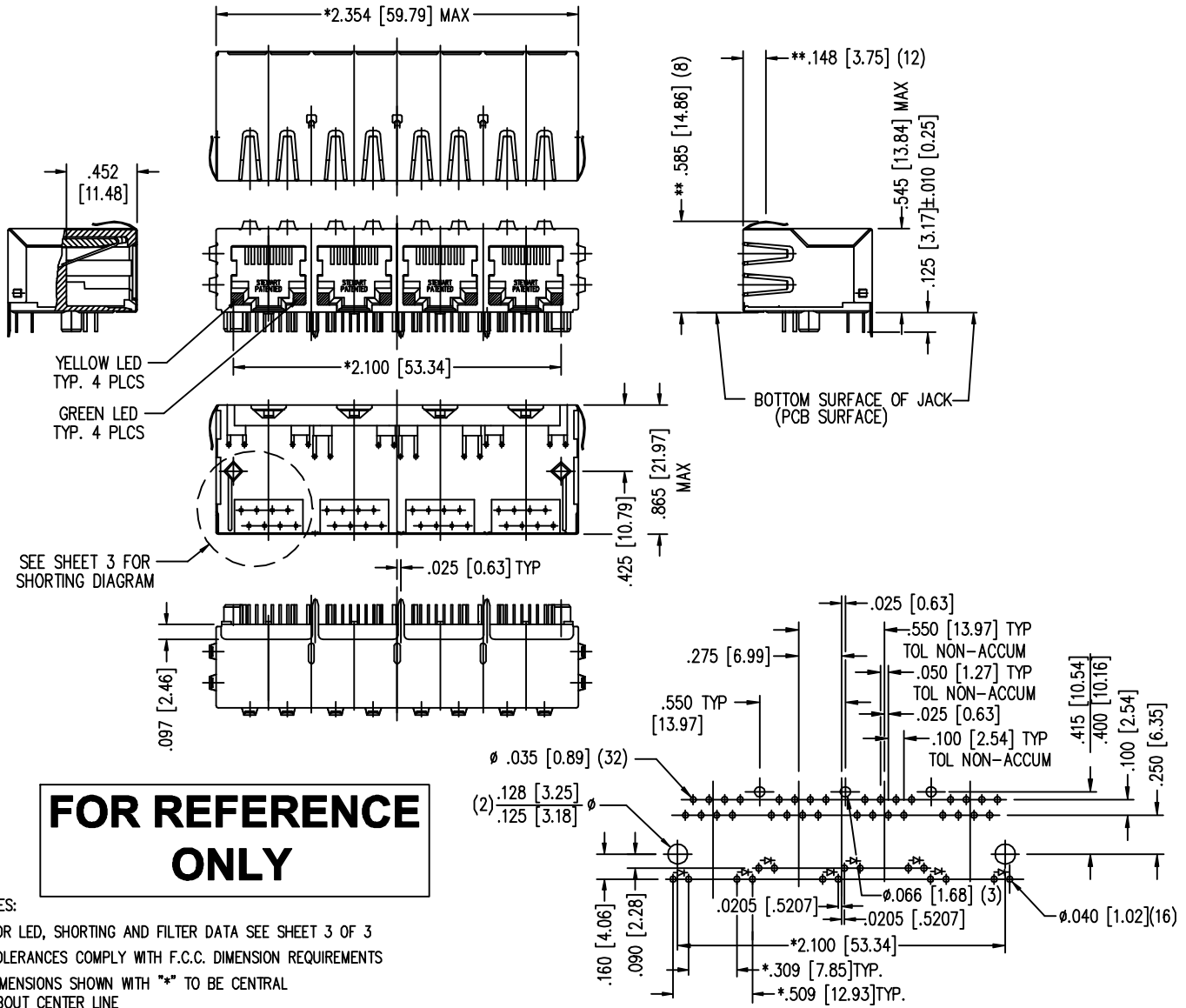


Stewart Connector Systems, Inc.
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REV.	REVISION CHANGES
X0	AS DRAWN

PART NO. SS-748804SFR1-A425

EMI-RFI ONE PIECE SHIELDED, ESD GROUNDED
 4 PORT PCB HARMONICA FILTERED LED JACK PAC
 "FR1" DENOTES FERRITE INSERT
 "-A425" DESIGNATES THE FOLLOWING:
 JACK CONTAINS A YELLOW AND GREEN LED PER PORT
 "PG4-BZ" SHIELD FEATURES - REAR SOLDER TAILS OFFSET .025
 AND THE ABSENCE OF BOTTOM PANEL GROUNDS AND SIDE SOLDER TAILS
 WITH "-SB00" CIRCUIT - SHORTING CONTACTS 1 TO 4 AND 2 TO 5



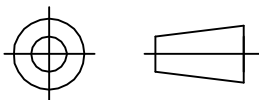
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- NOTES:
- FOR LED, SHORTING AND FILTER DATA SEE SHEET 3 OF 3
 - TOLERANCES COMPLY WITH F.C.C. DIMENSION REQUIREMENTS
 - DIMENSIONS SHOWN WITH "*" TO BE CENTRAL ABOUT CENTER LINE
 - "***" ON DIMENSION INDICATES HIGHEST POINT OF BEAM
 - DIMENSIONS SHOWN ARE SUBJECT TO CHANGE WITHOUT NOTICE
 - CONSULT FACTORY BEFORE ORDERING

- AVAILABLE WITH:
- 30 & 50 MICRO-INCH SELECTIVE GOLD PLATING
 - LOADED 1 - 8 CONTACTS

P.C.B. RECOMMENDED HOLE LAYOUT
 SEEN FROM COMPONENT SIDE
 TOLERANCE $\pm .003 [0.08]$ UNLESS OTHERWISE SPECIFIED

THIRD ANGLE PROJECTION



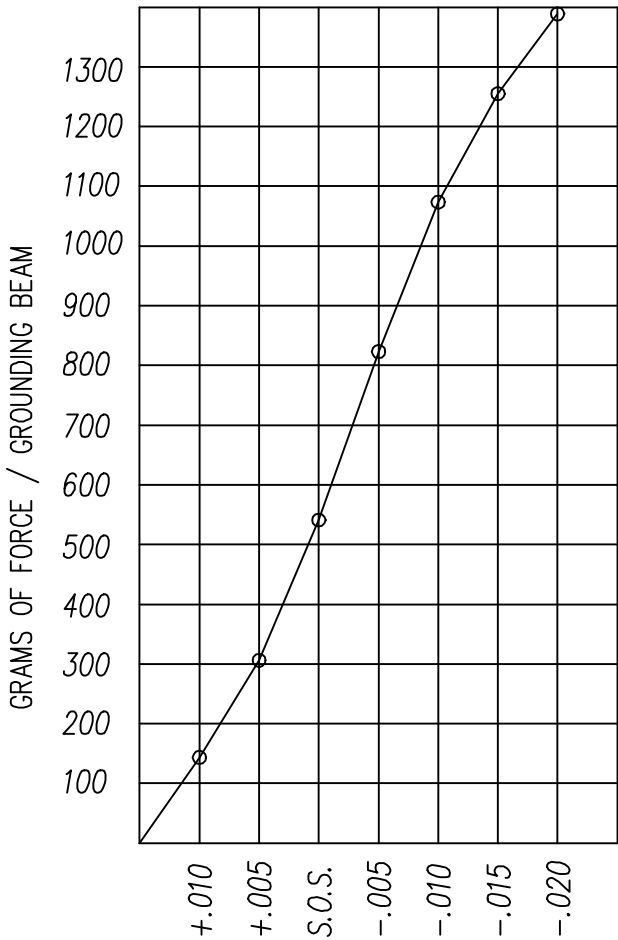
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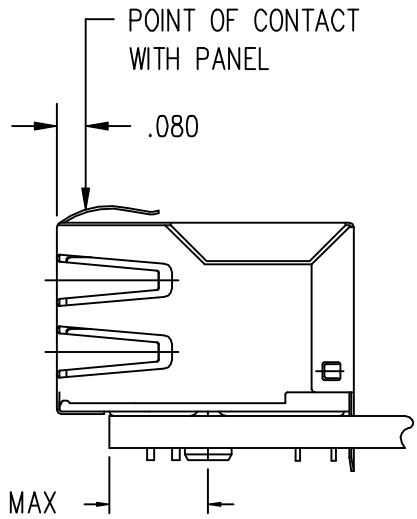
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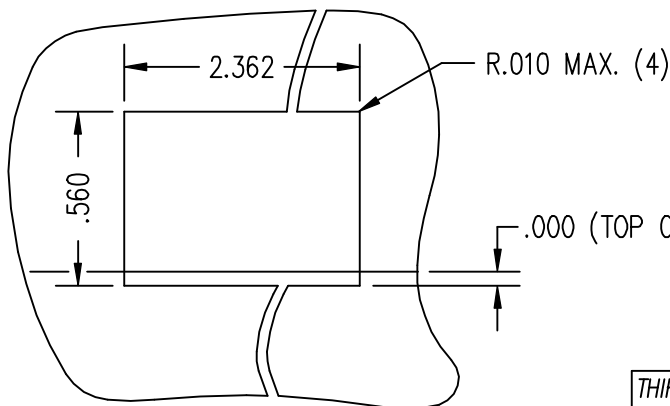


PANEL GROUNDING BEAM DEFLECTION
 S.O.S. = SUGGESTED OPENING SIZE



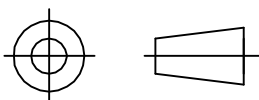
THE SUGGESTED PANEL OPENING IS INTENDED TO GIVE THE USER THE ABILITY TO HAVE REASONABLE JACK / PANEL CLEARANCES YET MAINTAIN RELIABLE GROUNDING CAPABILITY. THESE VARIABLES CAN BE ADJUSTED IN EITHER DIRECTION BUT MAY CARRY SOME CONSEQUENCES IN THE FORM OF LOWER MATING FORCES OR TIGHTER ASSEMBLY TOLERANCES. FORCE VALUES ON THE GRAPH ARE GENERAL AVERAGES TAKEN AT THE POINT OF CONTACT SHOWN ABOVE. THE SUGGESTED PANEL OPENING INCLUDES APPROXIMATELY .020 CLEARANCE ON THE SIDES AND TOP AND .005 ON THE BOTTOM.

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SUGGESTED PANEL OPENING

THIRD ANGLE PROJECTION



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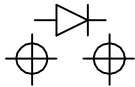
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LED SPECIFICATIONS

STANDARD LED	* FORWARD VOLTAGE (MAX)	* FORWARD VOLTAGE (TYP)	POWER DISSIPATION	WAVELENGTH	LUMINOUS INTENSITY @ 10mA	
					MIN	MAX
YELLOW DIFFUSED	2.5 V	2.1 V	105 mW	590 nm	2 MCD	8 MCD
GREEN DIFFUSED	2.6 V	2.25 V	105 mW	555 nm	2 MCD	8 MCD

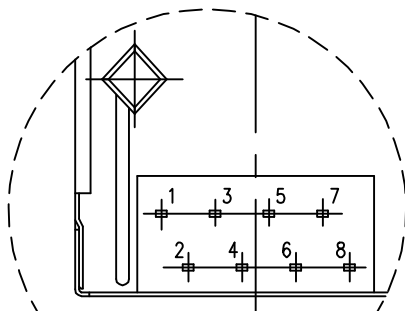
* WITH A FORWARD CURRENT OF 20 mA

LED POLARITY
(ENLARGED VIEW)



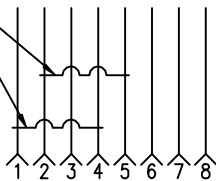
SINGLE COLOR LED

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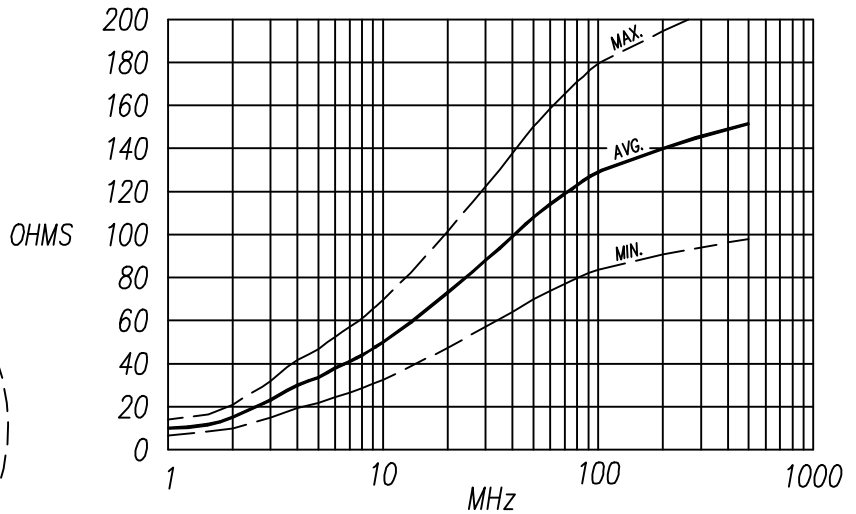


CONTACT SLOTS

SHORTING BAR
(SHORT REMOVED ON PLUG INSERTION)



FERRITE MATERIAL CHARACTERISTICS			
FERRITE MATERIAL DESIGNATION	NOISE SUPPRESSION RANGE	INITIAL PERMEABILITY @ B < 10 gauss	VOLUME RESISTIVITY OHM-CM.
FR1	30 MHz TO 200 MHz	500 TO 1500	$\geq 10^8$



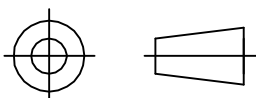
IMPEDANCE CURVE for FR1 INSERT

— AVERAGE IMPEDANCE CURVE
 - - - MAX. & MIN. IMPEDANCE CURVES

NOTE:

- MAXIMUM AND MINIMUM IMPEDANCE VALUES ARE DEPENDENT ON:
- 1) HOLE POSITION WITHIN THE INSERT'S GEOMETRY, AND
- 2) FERRITE MATERIAL'S IMPEDANCE VALUE TOLERANCE OF $\pm 25\%$.

THIRD ANGLE PROJECTION



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