

**90511-001LF - Modular Jack
: Cat 3, Vertical, Through
Mount, Unshielded Snap Peg,
4 Positions, 1 Port**



www.fci.com

Specifications

General	
Keyed	No
Location Peg	Snap
# Contacts/ Port	4
Number of Ports	1
Orientation	Vertical
Panel Stops	Yes
Performance Category	Cat 3
Product Style	Single
Shield (Style)	None
Shielded	No
Positions Loaded	All
Mating half	Mates with Modular Plugs conforming to FCC Part 68, Subpart F
Series Number	90511
Dimensional	
Diameter (Peg)	3.55 mm
Height (Above board)	Standard
Length (Overall pin)	3.18 mm (0.125 in.)
Electrical	
Attenuation	0.4 dB max. at 16 MHz
Crosstalk loss	-34 dB at 16 Mhz
Current rating	+30°C with all Contacts Powered at 1A
Resistance (Contact)	20 milli ohms max. per EIA 364-23
Resistance (Insulation)	500 M-ohms min.
Return Loss	0.07 max. to 20 Mhz, 0.2 max. to 100 Mhz
Voltage rating	1000 volts Signal to Signal AC or DC
Mechanical	
Durability (Mating cycles)	250 Cycles
Mating force	20N max.
Retention force	22.5N (5 lbf)
Mounting	

Mounting style	Board Through Mount
Solder process	Wave
Physical	
Color (Housing)	Black
Material (Contact)	Copper Alloy
Material (Housing)	Nylon
Plating (Contact area)	0.76 µm (30 µin.) GXT™
Underplating (Contact)	2.54 µm (100 µin.) Nickel
Flammability rating	Meets UL-94 V-0
Approvals / Certifications	
UL File Number	E82037
CSA File Number	LR46923
Approvals / Certifications	UL and CSA Approved
Other Features	
Most Popular Configuration	Yes
Packaging (Type)	Tube

1 | 2

3

4

PRODUCT NO.
SEE CHART

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SECTION A-A

mat'l. code		tolerances unless otherwise specified		CUSTOMER COPY		www.fciconnect.com		
l	tr	ec	no	dr	date	linear .0 ± 0.25 .00 ± 0.13 .000 ± 0.05 angles ± 2°	projection 	
N		N08-0170	SH	10/09/08				
H		ECR V61355	BC LDH	02DCT96				
J		ECR V61824	LW GREEN	09JAN97	dr	M CHENG	7/13/01	
K		S00022	LDV	01/25/00	en	M CHENG	7/13/01	
L		N04-0102	YS	11/23/04	chr	M CHENG	7/18/01	
M		N08-0097	SH	09/25/08	app	J HSIA	7/20/01	
sheet index		revision	M	M				title 4 POS VERT. SNAP PEG PCB III MOD JACK ASSY product family MODJACK size A4 scale 90511 code NAN sheet 1 of
1	2	1	2					

path no.

1 | 2

PDM: Rev:N

3

STATUS: Released

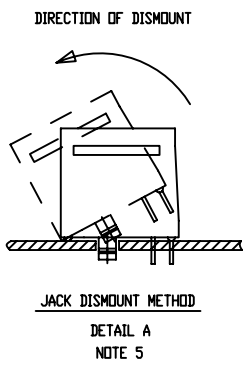
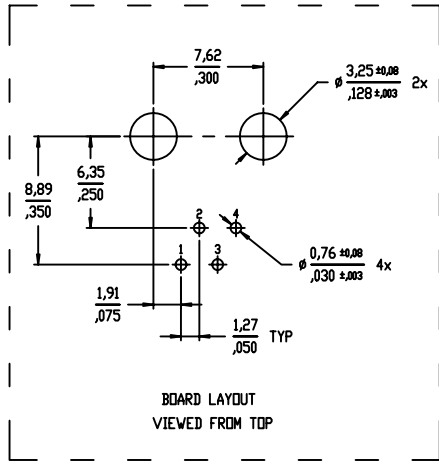
Printed: Aug 01, 2010

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PRODUCT NO.	POSITIONS LOADED	CONTACT PLATING	NOTES	PRODUCT NO.	POSITIONS LOADED	CONTACT PLATING	REMARKS
90511-001 -001LF -001HLF	ALL	GXT	BLACK	90511-101 -101LF -101HLF	ALL	GXT	NOT TOOLED
-002 -002LF -002HLF	ALL	30u" / ,76u Au	BLACK	-102 -102LF -102HLF	ALL	30u" / ,76u Au	NOT TOOLED
-003 -003LF	ALL	GXT	GREY				
-004 -004LF	ALL	30u" / ,76u Au	GREY				
-005 -005LF -005HLF	ALL	50u" / 1,27u Au	BLACK				

LEAD FREE PRODUCT NO.
MEETS PIP PROCESS PRODUCT NO.



NOTES :

- P/NO WITH DASH 0XX -NORMAL WAVE SOLDERING APPLICATION. P/NO WITH DASH 1XX -IR REFLOW APPLICATION (NOT TOOLED).
- PACKAGING SPEC. BUS-14-164.
- SCRATCH MARKS ACCEPTABLE ON THESE SURFACES.
- JACK IS FOR 1,57/.062 THICK PCB.
- SHOULD THE JACK NEED TO BE DISMOUNTED FROM THE PCB, PLS REMOVE JACK AS PER RECOMMENDED METHOD HEREIN. (DETAIL A) NIPPING THE LEGS OF THE PEG TOGETHER IS DISALLOWED, OTHERWISE LEG BREAKAGE MAY OCCUR.
- THESE DIMENSIONS ARE TAKEN FROM THE TOP OF THE PEG.
- GXT IS 0,76um / 30u" MIN GXT WITH Au FLASH OVER 1,27 um / 50u" MIN NI.
- THE PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.
- THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A WAVE SOLDER APPLICATION WITH A 1.60mm MINIMUM THICK CIRCUIT BOARD.
- IF LF P/N PACKAGING MEETS GS-14-920 SPECIFICATION.
- EQUIVALENT THICKNESS Au AND GXT PLATING HAVE SAME FUNCTION AND THEY ARE ALTERNATIVE BY THE CUSTDEMR .

mat'l. code		tolerances unless otherwise specified		CUSTOMER COPY	www.fciconnect.com title 4 POS VERT. SNAP PEG PCB III MOD JACK ASSY
ltr	ecrn no	dr	date	linear	
					MM
				angles	scale
				dr	A4
				engr	product family MODJACK
				chr	size
				appd	dwg no
					90511
sheet	revision	M	M		code
index	sheet	1	2		NAN
					sheet 2of