

87180-066LF - Modular Jack
: Cat 3, Horizontal, Through
Mount, Low Profile
Unshielded, 6 Positions, 1 Port



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Specifications

General	
Keyed	No
Location Peg	Snap
Number of contacts	6
Number of contacts (Loaded)	All
Number of Ports	1
Orientation	Horizontal
Panel Stops	No
Performance Category	CAT3
Product Style	Single
Shield (Style)	None
Shielded	No
Mating half	mates with Modular Plugs conforming to FCC Part 68, Subpart F
Series Number	87180
Dimensional	
Height (Above board)	Low Profile
Thickness (Board)	1.6 mm (0.063 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 36423
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 (4.5 lbf)
Retention force	22.5N (5 lbf)
Mounting	
Ground tabs	None

Mounting ears	No
Mounting style	Board Through Mount
Solder process	Wave
Physical	
Color (Housing)	Black
Material (Contact)	Copper Alloy
Material (Housing)	Nylon
Plating (Contact)	0.76 µm (30 µin.) GXT™
Underplating (Contact)	2.54 µm (100 µin.) Nickel
Flammability rating	meets UL94 V0
Approvals / Certifications	
UL File Number	E82037
CSA File Number	LR46923
Approvals / Certifications	UL and CSA Approved
Other Features	
Most Popular Configuration	Yes
Options (Miscellaneous)	Housing height 11.5 mm (0.453 in.)
Packaging (Type)	Tube

PRODUCT NUMBER	NUMBER OF POS.	DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	DIM G	LOADED POSITION	HOUSING COLOR	PRODUCT FIGURE	PLATING CODE X	PLATING
87180-X44/-X44LF/-X44HLF	4	3.05	3.81	7.62	11.20	3.05	5.50	7.87	ALL POS.	BLACK	FIGURE 1	0	5u" Au + high performance lubricant
87180-X42/-X42LF/-X42HLF									2,3			1	15 u" G.X.T.
87180-X66/-X66LF/-X66HLF									ALL POS.			2	20 u" GFDP
87180-X64/-X64LF/-X64HLF	6	5.08	6.35	10.16	13.20	4.06	6.60	9.90	2,3,4,5	BLACK	FIGURE 2	3	5u" Au + high performance lubricant
87180-X64A/-X64ALF/-X64AHLF									1,2,5,6			4	15 u" G.X.T.
87180-X62/-X62LF/-X62HLF									3,4			5	50 u" G.X.T.
87180-X88/-X88LF/-X88HLF	8	7.11	8.89	11.43	15.24	4.06	6.30	11.94	ALL POS.	BLACK	FIGURE 2	6	6 u" G.X.T.
87180-X88E/-X88ELF									ALL POS.			7	2 u" G.X.T.
87180-X86/-X86LF/-X86HLF									2,3,4,5,6,7				
87180-X84/-X84LF/-X84HLF									3,4,5,6				
87180-X84A/-X84ALF/-X84AHLF									1,4,5,8				
87180-X84B/-X84BLF/-X84BHLF									1,2,3,6				
87180-X84C/-X84CLF/-X84CHLF									1,2,7,8				
87180-X88G/-X88GLF									ALL POS.				
87180-X84GSLF/-X84GSHLF									3,4,5,6	GREY			

OBSOLETE(AE)

NOTE 7 MFG SLTE CODE

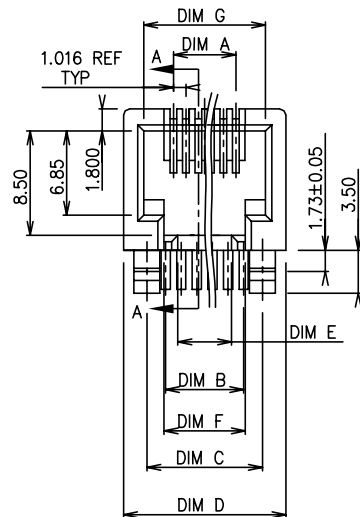
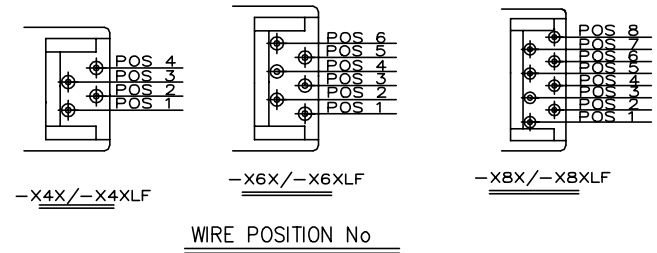
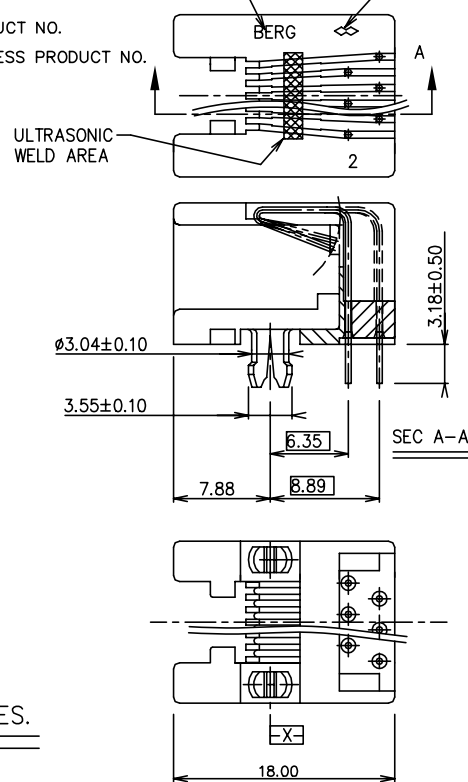
LEAD FREE PRODUCT NO.
MEETS PIP PROCESS PRODUCT NO.

FIGURE 1 - 4 & 6 POS. TYPES.



WIRE POSITION No

mat'l. code	surface	tolerance	projection	product family
ISD1302	✓	ISD1101 ISD406		MOD JACK
ltr ecn nodr	date	tolerances unless otherwise specified	mm	LOW PROFILE PCB III HORZ
AA N06-0043 DT 02/20/06	angle	0.X±0.3	mm	MOD JACK, FOR 1.6MM P.C.B.
AB N08-0097 SH 08/13/08	line	0.XX±0.15	scale 2.0	
AC N08-0170 SH 09/25/08	0'±2'	0.XXX±0.05		
AD ELX-N-01067 SH MMD 3/14/12	dr	KCHOU	10/19/93	dwg no
	engr	TONY CHIEN	10/19/93	sheet 1 of 2
	chr	TONY CHIEN	10/19/93	size
	appd	JENN TSAO	10/19/93	A4
sheet	revisior	AD	AD	type
index	sheet	1	2	Product Customer Drawing

