

BOARD MOUNT SOCKET (Straight)

FEATURES

- Chamfered entry prevents pin stubbing
- High reliability tuning fork contact
- Standoffs reduce rework due to flux residue
- Low insertion force and Hi Temp versions available
- Mates with PEG, MPEG, DPEG, LPEG, TPEG headers

STANDARD PART DIMENSIONS

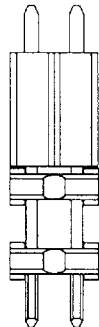
INSULATOR BODY		Single Row	Dual Row	Triple Row
W	WIDTH	0.100"/2,54mm	0.200"/5,08mm	0.300"/7,62mm
H	HEIGHT	0.325"/8,25mm	0.325"/8,25mm	0.325"/8,25mm
S	STANDOFF	0.015"/0,38mm	0.015"/0,38mm	0.015"/0,38mm
PC TAIL		Single Row	Dual Row	Triple Row
L	LENGTH	0.125"/3,18mm	0.125"/3,18mm	0.125"/3,18mm
WIDTH x THICKNESS		0.030"/0,76mm x 0.016"/0,41mm		
MATERIALS				
INSULATOR BODY		Glass Filled Polyester (UL94V-0)		
INSULATOR BODY (Hi Temp)		High Temp Thermoplastic (UL94V-0)		
CONTACT		Copper Alloy 770		

Specifications and Performance Data: Page 105

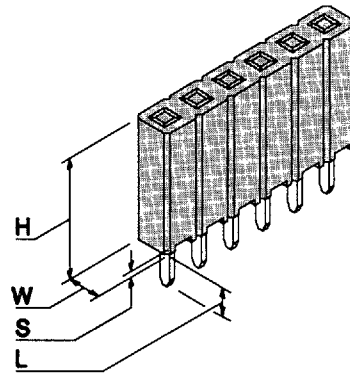
NOW AVAILABLE WITH LOW INSERTION FORCE (2.5 OZ AVG.) CONTACTS.

CRANE REALLY STACKS UP (UP DOWN!)

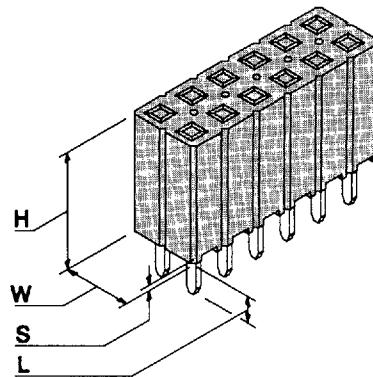
Crane's Board Mount Sockets team with Crane's pin strip headers for a variety of board stacking options. When our MATP sockets are mated with our MPEG headers, board stacking options in excess of 2.000" HIGH are possible. When our ABS Series sockets are used with our DPEG headers, stacking options run as LOW as 0.200". When it comes to board stacking, Crane has the answers.



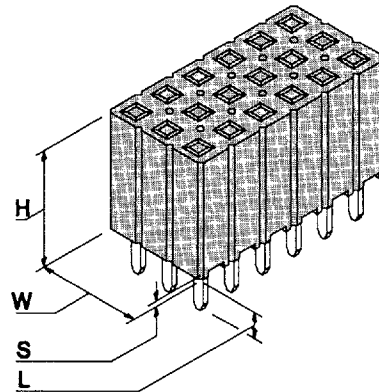
SINGLE ROW (1 to 36 positions)



DUAL ROW (2 to 72 positions)



TRIPLE ROW (3 to 108 positions)



0.100 in. (2,54mm) Centers
To Mate With a 0.025 in. (0,64mm) Post

HOW TO ORDER CRANE'S ATP/ATL SERIES

		STANDARD PART NUMBER						OPT.	OPT.
						-			
PRODUCT SERIES	↑	AT							
HIGH TEMP VERSION		GAT	↑						
CONTACT		STANDARD	P						
NOTE: Low insertion force not available with tin plating		LOW INSERTION FORCE	L	↑					
TOTAL NUMBER OF POSITIONS		SINGLE		01 - 36					
		DUAL		02 - 72					
		TRIPLE		03 - 108	↑				
NUMBER OF ROWS		SINGLE		S					
		DUAL		D					
		TRIPLE		T	↑				
TYPE OF SOCKET		STRAIGHT		S					
CONTACT PLATING (See Page 106)		CHOOSE G, T, or M, H, L, F						↑	
Due to the number of options, not all platings are stocked for all contact lengths. Contact factory for availability.									
TAIL PLATING		SAME AS CONTACT (Gold Flash with Gold)					C		
		TIN/LEAD (USE WITH GOLD CONTACT)					T	↑	
CONTACT SPACING		0.100" X 0.100" - RECTANGULAR TAIL (0.030" X 0.016")					B		
		0.100" X 0.100" - SQUARE TAIL (0.025" X 0.025")					Q	↑	
BOARD RETENTION OPTION		KINKED TAILS (SINGLE AND DUAL ROW ONLY)					K	↑	
LONGER TAIL OPTION		PC TAIL	0.155"/3,94mm	Rectangular Tail Only			T155		
		PC TAIL	0.200"/5,08mm	Square or Rectangular Tail			T200		
		PC TAIL	0.400"/10,16mm	Square or Rectangular Tail			T400		
		PC TAIL	0.585"/14,86mm	Square or Rectangular Tail			T585		

D.E.S.C. APPROVED PRODUCTS
(Defense Electronics Supply Center)



Sample Hotline: 1-800-676-7644



PERFORMANCE / TEST SPECIFICATIONS

QUALITY		CONTACTS	
Quality Program Requirements	ISO 9001	Material Specifications	
Military Specifications - Connectors	MIL-C-55302D	Phosphor Bronze	QQ-B-750/ASTM B159
Sampling Procedures and Tables for Inspection	MIL-STD-105	Copper and Copper Alloy 770	ASTM B122
Quality Assurance Terms and Conditions	MIL-STD-109	General Specifications	
Calibration Systems Requirements	MIL-STD-45662A	General Specifications for Contacts	MIL-C-39029D
Inspection System Requirements	MIL-I-45208A	POSTS	
INSULATOR		Wire, Phosphor Bronze	QQ-B-750/ASTM B159
Plastic Material Specification		PLATING	
Molding Plastics, Polyester, Thermoplastic	MIL-M-24519	Outer Plating Specifications	
Tests For Flammability	UL94V-O	Gold - Type II, Grade C	MIL-G-45204
UL Temperature Index	UL746B	Tin/Lead	MIL-P-81728A
Limiting Oxygen Index	ASTM D2863	Under Plating Specifications	
Plastic Material Applied Tests		Nickel	QQ-N-290
Dielectric Strength, Short Term	ASTM D149	Copper	MIL-C-14550
Dielectric, Constant	ASTM D150	Palladium Nickel	MIL-P-45209
Izod Impact Strength	ASTM D256	Plating Applied Tests	
DC Resistance (Volume Resistivity)	ASTM D257	Coating Thickness (X-Ray Fluorescence)	ASTM-A-754-79
Arc Resistance	ASTM D495	ASSEMBLY	
Water Absorption	ASTM D570	Testing Specifications	
Test for Tensile Strength	ASTM D638	Test Methods for Electrical Connectors	MIL-STD-1344A
Heat Deflection Temperature	ASTM D648	Test Methods for Electrical and Electronic Components	MIL-STD-202
Compressive Strength	ASTM D695	Connections, Electrical, Solderless, Wrapped	MIL-STD-1130B
Coefficient of Linear Thermal Expansion	ASTM D696	Environmental Test Methods	MIL-STD-810
Shear Strength of Plastics	ASTM D732	Packaging Specifications	
Rockwell Hardness R-scale	ASTM D785	Connector, Preparations For Delivery Of	MIL-C-55330
Flexural Strength of Plastics	ASTM D790	Marking of Electronic Parts	MIL-STD-1285B
Specific Gravity and Density of Plastics	ASTM D792	Marking for Shipment and Storage	MIL-STD-129
Mold Shrinkage Flow	ASTM D995	Identification Marking of US Military Property	MIL-STD-130
Outgassing Test	ASTM E-595-84	Bar Coding Symbology	MIL-STD-11898

Crane uses the above test methods in full or in part to determine compliance of its parts and materials to internal and customer supplied specifications.

PLATING SPECIFICATIONS	CONTACT AREA Inches (Millimeters)	PC TAIL Inches (Millimeters)	UNDERPLATE Inches (Millimeters)
G Selective	15μ*(0,00038) gold	100μ*(0,00254) tin/lead - min.	50μ*(0,00127) nickel - min.
T Tin/Lead	100μ*(0,00254) tin/lead	100μ*(0,00254) tin/lead - min.	50μ*(0,00127) nickel - min.
M Selective	50μ*(0,00127) gold	100μ*(0,00254) tin/lead - min.	50μ*(0,00127) nickel - min.
H Selective	30μ*(0,00076) gold	100μ*(0,00254) tin/lead - min.	50μ*(0,00127) nickel - min.
L Selective	10μ*(0,00025) gold	100μ*(0,00254) tin/lead - min.	50μ*(0,00127) nickel - min.
F Selective	3μ*(0,00008) gold	100μ*(0,00254) tin/lead - min.	50μ*(0,00127) nickel - min.

The following names and symbols used in this catalog are trademarks of Crane Electronics, Inc.

Crane Electronics®
Crane Connectors™
Mate-Rite Tip™



STANDARD TAIL OPTIONS ON .100" PIN STRIP HEADERS			
R	K	F	Q
COINED	KINKED	FINE LINE	SQUARE
The standard "R" option provides a coined tail improving solder action while making insertion easier.	The "K" option provides a kinked tail, reducing unwanted movement on the PC Board.	The "F" option combines an 0.018" rounded tail with an 0.025" square post. The fine line feature allows more traces between holes.	The "Q" option provides a 0.025" square tail for use in wire wrap applications.

STANDARDS	
<p>UL File No. E120111 (N)</p> <p>Recognized to U.S. and Canadian requirements under the Component Recognition Program of Underwriters Laboratories Inc.</p>	<p>ISO 9001</p> <p>Crane Connectors File No. A-3620</p> <p>Registered by UL to ISO9001 under UL's accreditation by Raad voor de Certificatie (RvC), the Dutch Council for Certification.</p>

