

SURFACE MOUNT HEADER (Right Angle)

FEATURES

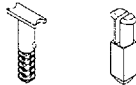
- MATE-RITE TIP prevents scraping of mating socket
- Industry standard compatible
- IR, vapor and wave solder compatible
- Patented board retention option prevents unwanted movement
- Mates with Crane's ATP, ATS sockets; JUN jumpers

STANDARD PART DIMENSIONS

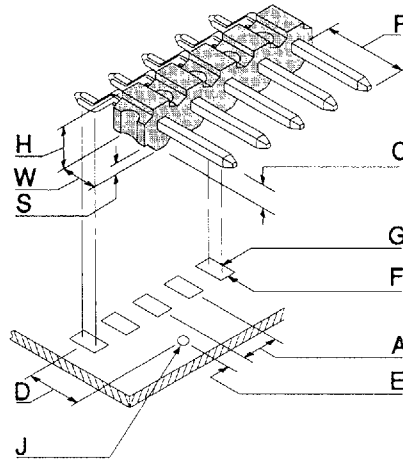
MATING		Single Row
P	POST "A"	0.318"/8,08mm
	POST "B"	0.230"/5,84mm
	POST "I"	See Selected Options (next page)
INSULATOR BODY		Single Row
W	WIDTH	0.098"/2,49mm
H	HEIGHT	0.117"/2,97mm
S	STANDOFF	0.029"/0,74mm
POST CENTERLINE DIM.		Single Row
C	HEIGHT ABOVE PC BOARD	0.069"/1,75mm
RECOMMENDED PC BOARD LAYOUT		Single Row
A	PAD CENTERLINE SPACING	0.100"/2,54mm
D	PEG HOLE LOCATION	0.175"/4,45mm
E		0.050"/1,27mm
F	PAD SIZE	0.045"/1,14mm
G		0.080"/2,03mm
J	PEG HOLE DIAMETER	Refer To Pages 100-101
MATERIALS		
INSULATOR BODY	High Temp. Thermoplastic (UL94V-0)	
POST	Phosphor Bronze	

OPTIONAL HOLD-DOWN PEGS (Ref. Pages 100-101)

Crane's PATENTED hold-down pegs (top and bottom entry available) secure part to the PC board preventing misalignment during handling or soldering.



Single Row (2 to 40 positions)



Specifications and Performance Data: Page 104



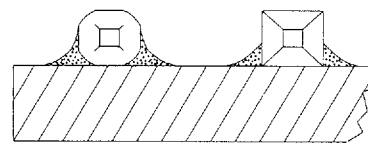
0.100in. (2,54mm) Centers
0.025in. (0,64mm) Sq. Mating Posts

HOW TO ORDER CRANE'S GPEG SERIES

		STANDARD PART NUMBER			OPTIONAL		
PRODUCT SERIES	GPEG			-			
TOTAL NUMBER OF POSITIONS	SINGLE	02 - 40					
NUMBER OF ROWS	SINGLE	S					
TYPE OF HEADER	RIGHT ANGLE	R					
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 pin lengths. Contact factory for availability.							
MATING POST DATA	Mating Post Length	Min. Gold Plated Area					
	0.318"/8,08mm	0.200"/5,08mm			A		
	0.230"/5,84mm	0.180"/4,57mm			B		
	OPTIONAL LENGTH - See Below				I		
TAIL (SURFACE MOUNT)	COINED	0.028"/0,71mm DIAG.			S		
SELECTED OPTIONS				POST			
				0.185"	1	8	5
				0.365"	3	6	5
				0.440"	4	4	0

Other pin lengths are available. Please call 1-800-676-7644 and give us your exact requirements.

THE "COINED TAIL" EDGE



According to studies, capillary action is considerably aided by coined surfaces. Since Crane's tails are coined, solder wicks higher onto the tail bringing more solder into contact with the pin surface. The result is a stronger surface mount connection.

Sample Hotline: 1-800-676-7644



Performance Specifications: PIN STRIP HEADERS

PRODUCT SERIES	PEG	TPEG	MPEG	FMPEG	DPEG	GPEG	GMPEG	LPEG	PLS PLT	MPLS MPLT	PGM	MPGM	DPGM	LPGM	PFF PFH	MPFF MPFH	PLF PLH	MPLF MPLH				
PAGES	8-9 22-23 24-25	10-11	12-13 28-29	14-15	16-17	18-19 30-31	20-21	26-27	32-33	34-35	56-57 62-63 66-67	58-59 64-65	60-61	68-69	76-77 84-85 86-87	78-79 88-89	80-81	82-83 90-91				
INSULATOR MATERIAL	Glass Filled (GF) Polyester										High Temp Thermoplastic		High Temp Thermoplastic									
TEMPERATURE RANGE	-55C to +125C										-65C to +220C		-65C to +220C									
FLAMMABILITY RATING	All Crane Connector Products Are Rated At UL 94V-0																					
CONTACT MATERIAL	Phosphor Bronze																					
PLATING OPTIONS	G,T, or M,H,L,F										G,T, or H,L,F		G,F or T									
INSULATION RESISTANCE	50,000 Megohms										50,000 Megohms		N/A		5,000 Megohms							
DWV (DIELECTRIC WITHSTANDING)	1500 VAC RMS										1500 VAC RMS		N/A		650 VAC RMS		650 VAC RMS					
CURRENT RATING	3 AMPS										3 AMPS		1 AMP		1 AMP							

Recommended Plated Thru Hole Sizes - PIN STRIP HEADERS

PIN SIZE	DIA / DIAG	HOLE SIZE	USED ON
0.025" Square	0.034"	0.040" +/- 0.003"	PEG / MPEP / GPEG / TPEG / LPEG / FMPEG
0.025" Coined	0.030"	0.038" +/- 0.003"	PEG / MPEP / GPEG / TPEG / LPEG / FMPEG
0.025" Coined	0.030"	0.032" +/- 0.002"	DPEG
0.025" Fine Line	0.018"	0.023" +/- 0.003"	PEG / MPEP / GPEG / TPEG / LPEG / FMPEG
0.020" Square	0.025"	0.032" +/- 0.003"	PGM / MPGM / DPGM / LPGM
0.020" Rounded	0.020"	0.025" +/- 0.003"	PFF / PFH / MPFF / MPFH
0.018" Square	0.023"	0.030" +/- 0.003"	PFF / PFH / MPFF / MPFH
0.018" Round	0.018"	0.023" +/- 0.003"	PFF / PFH / MPFF / MPFH

Recommended Plated Thru Hole Sizes - BOARD MOUNT SOCKETS

PIN SIZE	HOLE SIZE	USED ON
0.030" x 0.016"	0.040" +/- 0.003"	ATP / ATL / MATP / MATL / ATS / ATT / GATT
0.028" x 0.009"	0.035" +/- 0.003"	ABS / ABH / BBP
0.031" x 0.011"	0.040" +/- 0.003"	ABT/BBP
0.020" x 0.008"	0.028" +/- 0.003"	ATM
0.025" x 0.025" SQ	0.040" +/- 0.003"	ATP / ATL / MATP / MATL

PERFORMANCE / TEST SPECIFICATIONS

QUALITY	
Quality Program Requirements	ISO 9001
Military Specifications - Connectors	MIL-C-55302D
Sampling Procedures and Tables for Inspection	MIL-STD-105
Quality Assurance Terms and Conditions	MIL-STD-109
Calibration Systems Requirements	MIL-STD-45662A
Inspection System Requirements	MIL-I-45208A

INSULATOR	
Plastic Material Specification	
Molding Plastics, Polyester, Thermoplastic	MIL-M-24519
Tests For Flammability	UL94V-O
UL Temperature Index	UL746B
Limiting Oxygen Index	ASTM D2863
Plastic Material Applied Tests	
Dielectric Strength, Short Term	ASTM D149
Dielectric, Constant	ASTM D150
Izod Impact Strength	ASTM D256
DC Resistance (Volume Resistivity)	ASTM D257
Arc Resistance	ASTM D495
Water Absorption	ASTM D570
Test for Tensile Strength	ASTM D638
Heat Deflection Temperature	ASTM D648
Compressive Strength	ASTM D695
Coefficient of Linear Thermal Expansion	ASTM D696
Shear Strength of Plastics	ASTM D732
Rockwell Hardness R-scale	ASTM D785
Flexural Strength of Plastics	ASTM D790
Specific Gravity and Density of Plastics	ASTM D792
Mold Shrinkage Flow	ASTM D995
Outgassing Test	ASTM E595-84

CONTACTS	
Material Specifications	
Phosphor Bronze	QQ-B-750/ASTM B159
Copper and Copper Alloy 770	ASTM B122
General Specifications	
General Specifications for Contacts	MIL-C-39029D
POSTS	
Wire, Phosphor Bronze	QQ-B-750/ASTM B159
PLATING	
Outer Plating Specifications	
Gold - Type II, Grade C	MIL-G-45204
Tin/Lead	MIL-P-81728A
Under Plating Specifications	
Nickel	QQ-N-290
Copper	MIL-C-14550
Palladium Nickel	MIL-P-45209
Plating Applied Tests	
Coating Thickness (X-Ray Fluorescence)	ASTM-A-754-79
ASSEMBLY	
Testing Specifications	
Test Methods for Electrical Connectors	MIL-STD-1344A
Test Methods for Electrical and Electronic Components	MIL-STD-202
Connections, Electrical, Solderless, Wrapped	MIL-STD-1130B
Environmental Test Methods	MIL-STD-810
Packaging Specifications	
Connector, Preparations For Delivery Of	MIL-C-55330
Marking of Electronic Parts	MIL-STD-1285B
Marking for Shipment and Storage	MIL-STD-129
Identification Marking of US Military Property	MIL-STD-130
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>