FMPEG SERIES PAGE ONE OF THREE

# EMI SUPPRESSING HEADER (Straight, Dual Insulator)

### **FEATURES**

- Dual insulator design adds mechanical stability
- Suppression plates help reduce EMI/RFI interference
- Insulator standoffs reduce rework due to flux residue
- Coined tails improve solder action
- Mates with Crane's ATP, ATL, MATP, ATS and BBP Sockets

		STANDARD PART DIMENSIONS		
MATING		Dual Row		
Р	POST LENGTH	Please refer to the chart on the next		
-	INSULATOR SPACING	page for a wide selection of common board spacing options. Call us if the size you need is not listed.		
L	PIN LENGTH	oizo you noou le not notou.		

INSULATOR BODY		Dual Row		
w	WIDTH	0.198" / 5,03mm		
Н	HEIGHT	0.098" / 2,49mm		
S	STANDOFF	0.015" / 0,38mm		

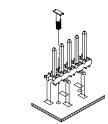
MATERIALS				
INSULATOR BODY	Glass Filled Polyester (UL94V-O)			
POST	Phosphor Bronze			
SUPPRESSION MATERIAL	High Volume Resistivity ferrite material with maximum operating temperature of 150°C			

#### **OPTIONAL HOLD-DOWN PEGS**

Crane's hold-down pegs (top and bottom entry available) secure part...

#### **SMT or THRU-HOLE**

... to the PC board preventing misalignment during handling and soldering.

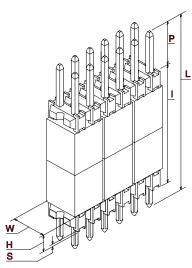


Crane header with Top Entry Peg

See SPECIFICATIONS and PERFORMANCE DATA for more detail

## DOUBLE ROW (2 to 80 Positions)





### **DESIGN NOTE**

Noise or electromechanical interference (EMI) can play havoc with electronic products today. With the continual growth of high speed systems and equipment, the need for EMI solutions has risen.

Crane connectors – sockets and headers with FERRITE slabs captured between insulators – provide a space saving inductive device that will suppress (minimize or eliminate) the effects of EMI.

SAMPLE HOTLINE: 1-800-676-7644

FMPEG SERIES	PAGE TWO OF THREE											
0.100" (2,54mm) Centers	HOW TO ORDER CRANE'S FMPEG SERIES											
0.025" (0,64mm) Square Mating Posts	STANDARD PART NUMBER											
PRODUCT SERIES	FMPE G											
TOTAL NUMBER OF POSITIONS	DUAL	02-80										
NUMBER OF ROWS	DUAL		D									
TYPE OF HEADER	STRAIGH	IT		S								
PLATING (See Below For Specifications)	CHOOSE	G, T or M,	H, L, F									
Due to the wide number of options, not all plat availability.	tings are stoc	ked for all pir	lengths.	Contact fac	tory fo	or						
TAIL OPTIONS	COINED		0.028" /	0,71mm	DIAG	ONAL	R					
	KINKED		0.028" / 0,71mm DIAGONAL		K							
	FINE LINI	E*	0.018" / 0,46mm DIAGONAL			F						
	SQUARE 0.025" / 0,64mm DIAGONAL			ONAL	Q							
	*The FINE LINE option is not available in all pin lengths.											
SELECTED OPTIONS	PO LEN "F			ULATOR PACING "I"		LEN	PIN IGTH 'L"					
	0.100	)" = D	0.250" = D			0.455" = G			D	D	G	
	0.200	)" = Q	0.325" = U			0.640" = N			Q	U	N	
	0.150	)" = K	0.375" = F			0.640" = N			K	F	N	
	0.230	)" = B	0.375" = F			0.745" = R			В	F	R	
0.190		)" = O	0.450" = W		0.745" = R		0	W	R			
	0.230" = B		0.500" = I		0.840" = V		В	ı	٧			
	0.125	5" = H	0.700" = N		0.935" = X		Н	N	X			
FREQUENCY RANGE	NORMAL	IORMAL 60 to 300 MHz						N				
HIGH			100 to 500 MHz					н				

The height of the ferrite material will vary based on the insulator spacing. Contact the factory for information on standard parts.

### JUST A SAMPLING! Contact Crane for MORE options.

Crane's dual insulator headers with EMI Suppression Plates are available in a variety of sizes and thicknesses in both DUAL ROW and SINGLE ROW options. Due to the number of combinations, it is impossible for us to list anything more than a sampling of what's available. For more information – samples, quotes, prints – contact the factory with your exact requirements. Better still, just fax us your design and we'll do the rest.

**SAMPLE HOTLINE: 1-800-676-7644** 

	CRANE CONNECTORS - PLATING SPECIFICATIONS						
PLATING OPTIONS		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.			
Т	Tin / Lead	100μ" (0,00254) Tin / Lead	100μ" (0,00254) Tin/Lead - Min	50μ" (0,00127) Nickel - Min.			
М	Selective	50μ" (0,00127) Gold	100μ" (0,00254) Tin/Lead - Min	50μ" (0,00127) Nickel - Min.			
Н	Selective	30µ" (0,00076) Gold	100µ" (0,00254) Tin/Lead - Min	<b>50</b> μ" (0,00127) Nickel - Min.			
L	Selective	<b>10</b> μ" (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.			

STANDARD TAIL OPTIONS ON 0.100" (2,54mm) PIN STRIP HEADERS							
"R"	"K" KINKED	"F" FINE	"Q" SQUARE				
The standard "R" oprtion provided 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. This fine line feature allows more traces between holes.	The "Q" option provides an 0.025" square tail for use in wire wrap applications.				

STANI	DARDS				
	ISO9001				
<b>C 512</b> US  UL File No. E120111 (N)	Crane Connectors File No. A-3620				
Recognized to U.S. and Canadian requirements under the Component Recognition Program of Underwriters Laboratories Inc.	Registered by UL to ISO9001 under UL's accreditation by Raad voor de Certificatie (RvC), the Dutch Council for Certification.				

ENGINEERING NOTE: The information presented in this catalog page is accurate to the best of our knowledge. Due to ongoing efforts to advance design and material performance, the information is subject to change without notice.