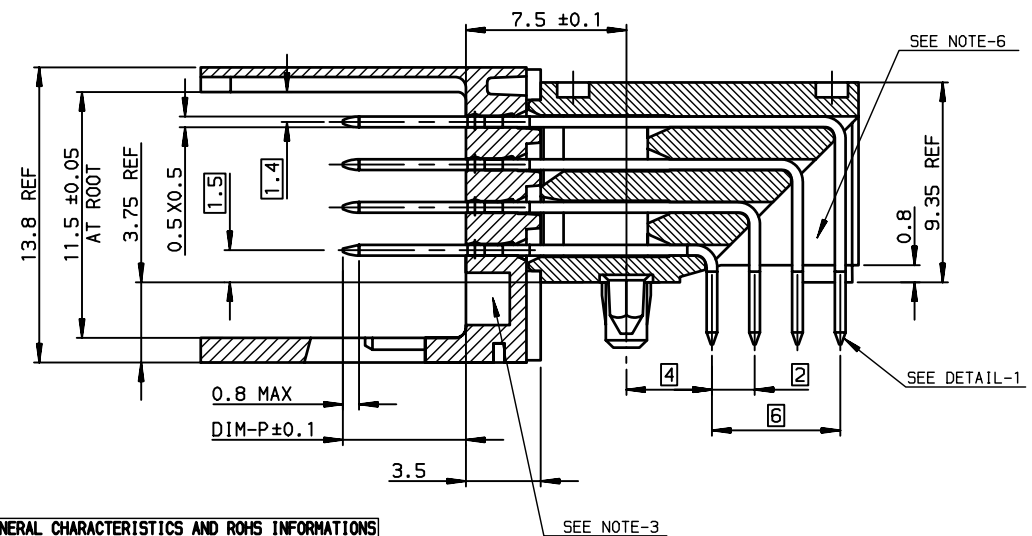


- NOTE-1: GENERAL CHARACTERISTICS ACCORDING TO GS-12-446
 NOTE-2: ONE CENTER PEG FOR HOLD DOWN FORCE
 NOTE-3: CODING RECESS FOR 8MM EXTENDED KEYS
 NOTE-4: PRODUCT MARKING = PRODUCT NUMBER + FCI+DATE CODE
 NOTE-5: PLATING ON MATING PART : SEE PROD SPEC: GS-12-446
 NOTE-6: CENTRAL WALL WITH END REAR SUPPORT
 NOTE-7: STANDARD PACKAGING IS TUBE ,BUT IF SUFFIX "P" IS ADDED IN P/N,PACKAGING IS IN TRAYS,MARKING IS WITHOUT "P"
 Example:70448-1xxPLF ,marking 70448-1xxLF

SECTION-A SCALE 4/1






GENERAL CHARACTERISTICS AND ROHS INFORMATIONS
 See PRODUCT SPECIFICATION , GS-12-446

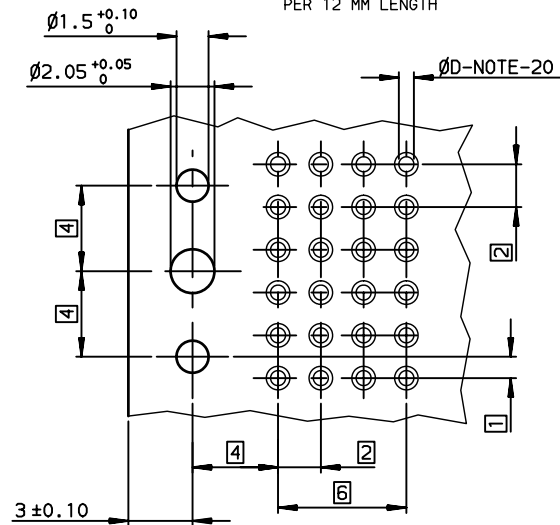
OTHERS INFORMATIONS,SEE DRW 70448-2/-3/-4/-5
 P/N : see sheet 2

European Views

rev	ecn no	dr	date
F	-	PCH	2003/07/03
G	LS06-0089	LGO	2006/06/06
H	LS06-0114	LGO	2006/09/11
J	LS07-0134	MLE	2007/05/14
-	-	-	-
-	-	-	-

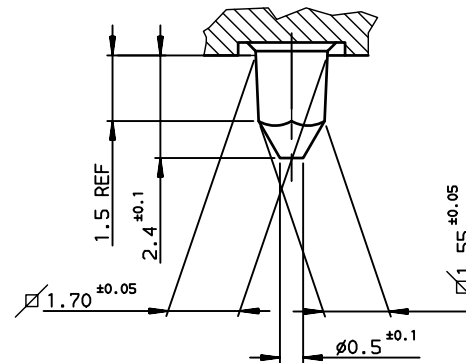
www.fciconnect.com			surface ISO 1302		tolerance std ISO 406 ISO 1101		projection 		mm 		
			TOLERANCES UNLESS OTHERWISE SPECIFIED								
Dr	CHAMPION	1995/06/06	ANGULAR	LINEAR	0.X	± 0.1	size A3	Scale 2.5:1			
Eng	LENOIR	1995/06/06			0.XX	± 0.1					
Chr	LEGARE	1995/06/06			0.XXX	± 0.1					
Appr	LEGARE	1995/06/06	Product family		METRAL		Spec ref -				
			title METRAL RA HDR STB CONVERG				dwg no 70448-1		Rev. J		
			NB 4x24 -4MODULES -SPECIAL LOADING								
			catalog no				-		CUSTOMER		sheet 1 of 5

RECOMMENDED PCB LAYOUT
PER 12 MM LENGTH

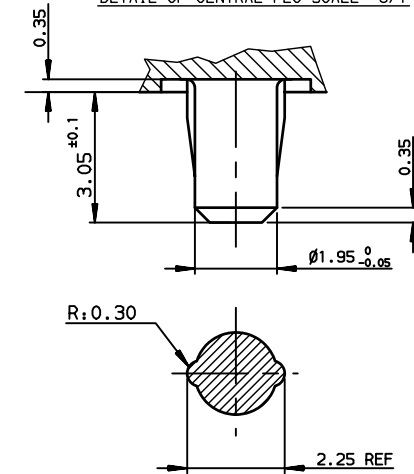


NOTE-20: PTH DIMENSIONS - ØD
- DRILL DIAMETER = 0.85 REF
- SEE DRAWING C-8626-0005

DETAIL OF LOCATING PEGS (2x) SCALE 8/1

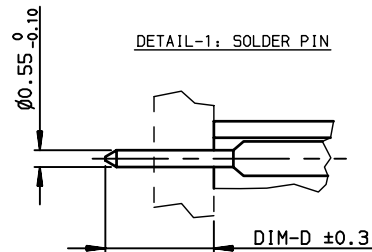


DETAIL OF CENTRAL PEG SCALE 8/1



GENERAL CHARACTERISTICS AND ROHS INFORMATIONS
See PRODUCT SPECIFICATION : GS-12-446

PART NUMBER	PERFORMANCE LEVEL
70448-1YY(LF)	STANDARD P/N, See Prod. Spec GS-12-446
70448-3YY(LF)	CUSTOMER SPECIAL , Specific Plating
70448-xYY(LF)	



OTHERS INFORMATIONS, SEE DRW 70448-1/-3/-4/-5

European Views

rev	ecn no	dr	date
F	-	PCH	2003/07/03
G	LS06-0089	LGO	2006/06/06
H	LS06-0114	LGO	2006/09/11
J	LS07-0134	MLE	2007/05/14
-	-	-	-
-	-	-	-
-	-	-	-

www.fciconnect.com			surface ISO 1302			tolerance std ISO 406 ISO 1101		projection 		mm 	
			TOLERANCES UNLESS OTHERWISE SPECIFIED								
Dr	CHAMPION	1995/06/06	ANGULAR	LINEAR	0.X		±0.1		size A3	Scale 4:1	
Eng	LENOIR	1995/06/06			0.XX		±0.1				
Chr	LEGARE	1995/06/06			0.XXX		±0.1				
Appr	LEGARE	1995/06/06	0.XX' ±2"						ECN LS07-0134		
			Product family					METRAL		Spec ref -	
			title METRAL RA HDR STB CONVERTER					no dwg 70448-2		Rev. J	
			NB 4x24 -4MODULES -SPECIAL LOADING								
			catalog no							CUSTOMER sheet 2 of 5	



Copyright FCI.

STANDARD P/N: 70448-X01				LEAD-FREE P/N: 70448-X01LF					CTS LOADING PATTERN															
DIM-P	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
ROW-D	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75
ROW-C	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75
ROW-B	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75
ROW-A	5.00	6.50	6.50	6.50	6.50	6.50	6.50	6.50	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	6.50	6.50	6.50	6.50	6.50	6.50	6.50	5.00
DIM-D =2.9±0.3		NUMBER OF CTS = 96																						

STANDARD P/N: 70448-X02				LEAD-FREE P/N: 70448-X02LF					CTS LOADING PATTERN															
DIM-P	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
ROW-D	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75
ROW-C	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75
ROW-B	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75
ROW-A	5.00	6.50	6.50	6.50	6.50	6.50	6.50	6.50	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	6.50	6.50	6.50	6.50	6.50	6.50	6.50	5.00
DIM-D =3.7±0.3		NUMBER OF CTS = 96																						




STANDARD P/N: 70448-X03				LEAD-FREE P/N: 70448-X03LF				CTS LOADING PATTERN																
DIM-P	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
ROW-D		5.00				5.00		5.00				5.00		5.00	5.00	5.00		5.00		5.00		5.00		5.00
ROW-C	5.00				5.00				5.00		5.00		5.00		5.00		5.00		5.00		5.00		5.00	
ROW-B		5.00				5.00		5.00				5.00		5.00	5.00	5.00		5.00		5.00		5.00		5.00
ROW-A	5.00		5.00		5.00				5.00		5.00		5.00		5.00		5.00		5.00		5.00		5.00	
DIM-D =2.9±0.3		NUMBER OF CTS = 43																						

(ALSO REPLACE B-STYLE P/N: 89034-X01)

OTHERS INFORMATIONS,SEE DRW 70448-1/-2/-4/-5

European Views

rev	ecn no	dr	date
E	-	PCH	2003/02/18
G	LS06-0089	LGO	2006/06/06
H	LS06-0114	LGO	2006/09/11
J	LS07-0134	MLE	2007/05/14
-	-	-	-
-	-	-	-
-	-	-	-

www.fciconnect.com			surface ISO 1302		<input checked="" type="checkbox"/>	tolerance std ISO 406 ISO 1101		projection 		mm 	
TOLERANCES UNLESS OTHERWISE SPECIFIED											
Dr	CHAMPION	1995/06/06	ANGULAR	LINEAR	0.X		±0.1		size A3	Scale 4:1	
Eng	CHAMPION	1995/06/06			0.XX		±0.1				
Chr	LEGARE	1995/06/06			0.XXX		±0.1				
Appr	LEGARE	1995/06/06	0.XX' ±2°		0.XXX		±0.1		ECN LS07-0134		
Product family			METRAL			Spec ref -					
			title METRAL RA HDR STB CONVER					dwg no 70448-3		Rev. J	
catalog no			-					CUSTOMER		sheet 3 of 5	

STANDARD P/N: 70448-X04				LEAD-FREE P/N: 70448-X04LF					CTS LOADING PATTERN																
DIM-P	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
ROW-D		5.00		5.00		5.00		5.00				5.00		5.00	5.00	5.00		5.00		5.00		5.00		5.00	
ROW-C	5.00			5.00	5.00				5.00		5.00		5.00		5.00		5.00		5.00		5.00		5.00		
ROW-B		5.00				5.00		5.00				5.00		5.00	5.00	5.00		5.00		5.00		5.00		5.00	
ROW-A	5.00		5.00		5.00				5.00		5.00		5.00		5.00		5.00		5.00		5.00		5.00		
DIM-D =2.9±0.3		NUMBER OF CTS = 45																							

STANDARD P/N: 70448-X05				LEAD-FREE P/N: 70448-X05LF					CTS LOADING PATTERN															
DIM-P	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
ROW-D	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75
ROW-C	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.00	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	6.50	6.50	5.75	5.75
ROW-B	5.75	6.50	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	6.50	5.75	6.50	5.75	5.75	5.75
ROW-A	6.50	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	6.50	5.75	6.50	5.75	5.75
DIM-D =2.9±0.3		NUMBER OF CTS = 96																						

(REPLACE B-STYLE P/N: 89034-X02)




STANDARD P/N: 70448-X06				LEAD-FREE P/N: 70448-X06LF				CTS LOADING PATTERN																
DIM-P	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
ROW-D	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
ROW-C	6.50	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	6.50
ROW-B	6.50	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	6.50
ROW-A	6.50	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	6.50
DIM-D =2.9±0.3		NUMBER OF CTS = 96																						

(REPLACE B-STYLE P/N: 89034-X03)

OTHERS INFORMATIONS,SEE DRW 70448-1/-2/-3/-5

European Views

rev	ecn no	dr	date
E	-	PCH	2003/02/18
G	LS06-0089	LGO	2006/06/06
H	LS06-0114	LGO	2006/09/11
J	LS07-0134	MLE	2007/05/14
-	-	-	-
-	-	-	-
-	-	-	-

www.fciconnect.com			surface ISO 1302		<input checked="" type="checkbox"/>	tolerance std ISO 406 ISO 1101		projection 		mm 	
TOLERANCES UNLESS OTHERWISE SPECIFIED											
Dr	CHAMPION	1995/06/06	ANGULAR	LINEAR	0.X		±0.1		size A3	Scale 4:1	
Eng	LENOIR	1995/06/06			0.XX		±0.1				
Chr	LEGARE	1995/06/06			0.XXX		±0.1				
Appr	LEGARE	1995/06/06	0.XX' ±2"						ECN LS07-0134		
			Product family					METRAL		Spec ref -	
			title METRAL RA HDR STB CONVERG					dwg no 70448-4		Rev. J	
			NB 4x24 -4MODULES -SPECIAL LOADING								
			catalog no -					CUSTOMER		sheet 4 of 5	

STANDARD P/N: 70448-X07				LEAD-FREE P/N: 70448-X07LF					CTS LOADING PATTERN															
DIM-P	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
ROW-D																								
ROW-C	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
ROW-B	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
ROW-A	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
DIM-D =2.9±0.3		NUMBER OF CTS = 72																						

(REPLACE B-STYLE P/N: 89034-X04)

STANDARD P/N: 70448-X08				LEAD-FREE P/N: 70448-X08LF				CTS LOADING PATTERN																	
DIM-P	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
ROW-D																									
ROW-C	5.00		5.00		5.00		5.00		5.00		5.00		5.00		5.00		5.00		5.00		5.00		5.00		
ROW-B	5.00		5.00		5.00		5.00		5.00		5.00		5.00		5.00		5.00		5.00		5.00		5.00		
ROW-A	5.00		5.00		5.00		5.00		5.00		5.00		5.00		5.00		5.00		5.00		5.00		5.00		
DIM-D =2.9±0.3		NUMBER OF CTS = 36																							



(REPLACE B-STYLE P/N: 89034-X05)

STANDARD P/N: 70448-X09				LEAD-FREE P/N: 70448-X09LF					CTS LOADING PATTERN															
DIM-P	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
ROW-D	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75
ROW-C	5.75	5.75	5.00	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.00
ROW-B	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75
ROW-A	6.50	6.50	6.50	6.50	6.50	6.50	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	6.50	6.50	6.50	6.50	6.50	6.50
DIM-D =2.9±0.3		NUMBER OF CTS = 96																						

(REPLACE B-STYLE P/N: 89034-X09)

OTHERS INFORMATIONS,SEE DRW 70448-1/-2/-3/-4

European Views

www.fciconnect.com				surface ISO 1302		tolerance std ISO 406 ISO 1101		projection 		mm 			
				TOLERANCES UNLESS OTHERWISE SPECIFIED									
				Dr	CHAMPION	1995/06/06	ANGULAR	LINEAR	0.X	±0.1	size A3	Scale 4:1	
Eng	LENOIR	1995/06/06	0.XX	±0.1									
Chr	LEGARE	1995/06/06	0.XX' ±2"	±0.1									
Appr	LEGARE	1995/06/06	Product family				METRAL		ECN LS07-0134				
				METRAL RA HDR STB CONVERG				no		Rev.			
				NB 4x24 -4MODULES -SPECIAL LOADING				dwg		J			
				catalog no						CUSTOMER sheet 5 of 5			
rev	ecn no	dr	date										
E	-	PCH	2003/02/18										
G	LS06-0089	LGO	2006/06/06										
H	LS06-0114	LGO	2006/09/11										
J	LS07-0134	MLE	2007/05/14										
-	-	-	-										
-	-	-	-										
-	-	-	-										



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