

Excellent Integrated System Limited

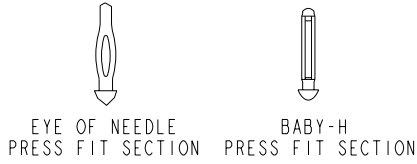
Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

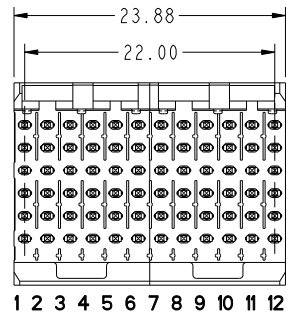
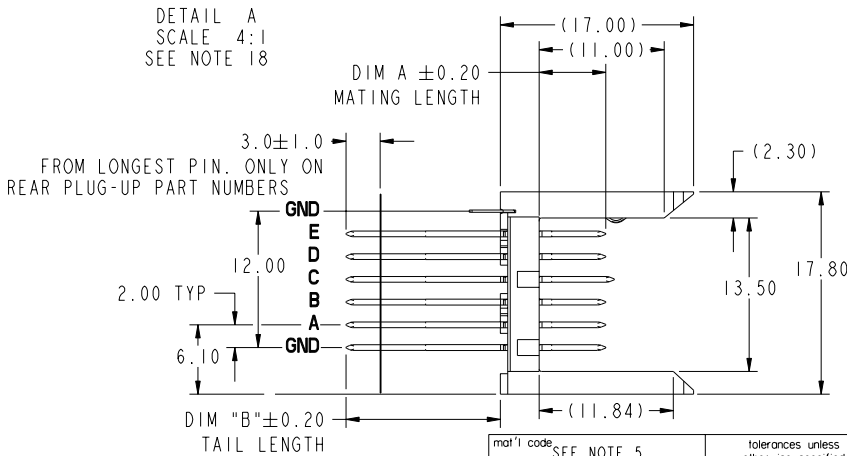
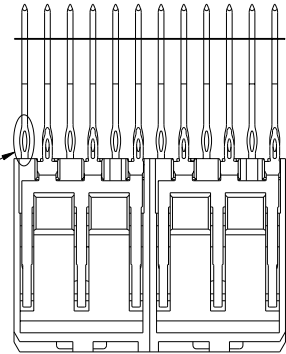
[FCI](#)
[63743-9006LF](#)

For any questions, you can email us directly:
sales@integrated-circuit.com

PRODUCT NUMBER	PLATING PERFORMANCE LEVEL	APPLICATION	SHROUD FOR REAR PLUG UP APPLICATIONS
63743-1YYY	TELCORDIA CO	STANDARD	84818-102
63743-1YYYLF		LEAD FREE	84818-102LF
63743-5YYY	TELCORDIA UE	STANDARD	84818-502
63743-5YYYLF		LEAD FREE	84818-502LF
63743-9YYY	TELCORDIA CO	STANDARD	84818-102
63743-9YYYLF		LEAD FREE	84818-102LF



SEE DETAIL A

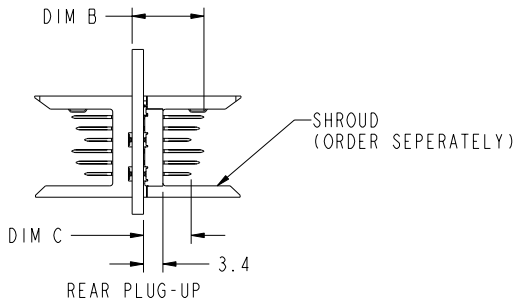


mat'l code SEE NOTE 5				tolerances unless otherwise specified		CUSTOMER		FCI	
ltr	ecm no.	dr	date	linear	0.X ± 0.3	COPY		www.fciconnect.com	
P	V06-0498	DCH	2006-06-05		0.XX ± 0.13	projection		title VERTICAL SIGNAL HDR 5 ROW	
R	V06-0779	DAI	2006-08-11		.XXX ± 0.051	MM		P.F. 60 POS. SELECT LOAD STD.	
S	V07-0182	DCH	2007-04-20	angles	0° ± 2°	scale		product family METRAL 1000	
T	V07-0733	HTB	2008-01-02	dr	K. BELL 2000-03-15	1:1		size	
U	V08-0049	LP	2008-2-4	engr	M. HAHN 2000-03-15	A		dwg no 63743	
-	-	-	-	chr	M. HAHN 2000-03-15			code 213	
N	V05-0533	TAB	2005-06-01	appd	M. HAHN 2000-03-15			sheet 1 of 6	
sheet index	revision sheet	1	2	3	4	5	6	cage code 22526	

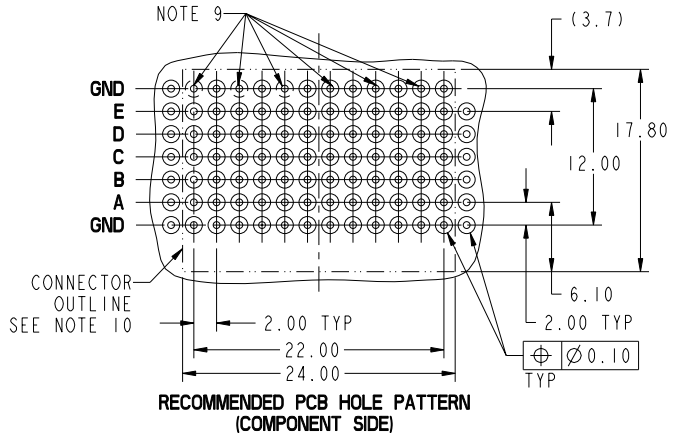
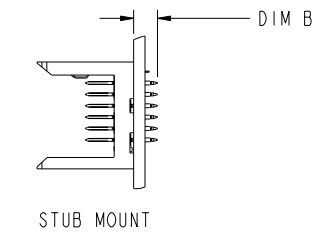
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PRODUCT NUMBER
SEE SHEET 1

PRESS-FIT HOLES	OPTION 1	OPTION 2
HOLE DIAMETER AFTER PLATING	0.65-0.77	0.65-0.80
DRILLED HOLE	0.78-0.83	0.81-0.86 (0.85 DRILL)
COPPER PLATING	0.025-0.050	0.025 MIN
SnPb PLATING	0.005-0.015	0.005-0.015



SEE PRINT 58351 FOR
ADDITIONAL PCB INFO.



mat'l code SEE NOTE 5				tolerances unless otherwise specified		CUSTOMER		FCI www.fciconnect.com	
lfr	ecm no.	dr	date	linear	0.X ± 0.3	COPY		title	
U				linear	0.XX ± 0.13	projection		VERTICAL SIGNAL HDR 5 ROW	
				angles	.XXX ± .051	MM		P.F. 60 POS. SELECT LOAD STD.	
				dr	K. BELL 2000-03-15	product family		METRAL 1000	
				eng	M. HAHN 2000-03-15	size		63743	
				chr	M. HAHN 2000-03-15	scale		A	
				appd	M. HAHN 2000-03-15	sheet		2	
sheet index	revision sheet								

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PIN CODE NO.	DIM A MATING LENGTH	DIM B TAIL LENGTH	PCB THICKNESS RANGE ACCOMMODATED BY PIN'S TAIL LENGTH				
			WHEN MATING TO A 73981 OR 84688 SERIES RECEPTACLE		WHEN MATING TO A 52057 SERIES METRAL 4000 RECEPTACLE		
			ROWS A,B,C,D,E	GROUND ROW	ROWS:A,B,D,E	ROW C	GROUND ROW
01*	5.00	4.30	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN
22		12.20	2.95 - 3.80	2.95 - 4.20	2.95 - 3.80	2.95 - 3.80	2.95 - 4.20
30		12.95	2.95 - 4.55	3.25 - 4.95	2.95 - 4.55	2.95 - 4.55	3.25 - 4.95
05		13.70	2.95 - 5.30	4.00 - 5.70	3.30 - 5.30	2.95 - 5.30	4.00 - 5.70
35		14.45	3.05 - 6.05	4.75 - 6.45	4.05 - 6.05	3.05 - 6.05	4.75 - 6.45
48		15.20	3.80 - 6.80	5.50 - 7.20	4.80 - 6.80	3.80 - 6.80	5.50 - 7.20
40		15.70	4.30 - 7.30	6.00 - 7.70	5.30 - 7.30	4.30 - 7.30	6.00 - 7.70
65		16.40	5.00 - 8.00	6.70 - 8.40	6.00 - 8.00	5.00 - 8.00	6.70 - 8.40
09		17.10	5.70 - 8.70	7.40 - 9.10	6.70 - 8.70	5.70 - 8.70	7.40 - 9.10
02*		5.75	4.30	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN
44	12.20		2.95 - 3.80	2.95 - 4.20	2.95 - 3.80	2.95 - 3.80	2.95 - 4.20
31	12.95		2.95 - 4.55	3.25 - 4.95	2.95 - 4.55	2.95 - 4.55	3.25 - 4.95
06	13.70		2.95 - 5.30	4.00 - 5.70	3.30 - 5.30	2.95 - 5.30	4.00 - 5.70
36	14.45		3.05 - 6.05	4.75 - 6.45	4.05 - 6.05	3.05 - 6.05	4.75 - 6.45
49	15.20		3.80 - 6.80	5.50 - 7.20	4.80 - 6.80	3.80 - 6.80	5.50 - 7.20
25	15.70		4.30 - 7.30	6.00 - 7.70	5.30 - 7.30	4.30 - 7.30	6.00 - 7.70
66	16.40		5.00 - 8.00	6.70 - 8.40	6.00 - 8.00	5.00 - 8.00	6.70 - 8.40
10	17.10		5.70 - 8.70	7.40 - 9.10	6.70 - 8.70	5.70 - 8.70	7.40 - 9.10
03*	6.50		4.30	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN
45		12.20	2.95 - 3.80	2.95 - 4.20	2.95 - 3.80	2.95 - 3.80	2.95 - 4.20
32		12.95	2.95 - 4.55	3.25 - 4.95	2.95 - 4.55	2.95 - 4.55	3.25 - 4.95
07		13.70	2.95 - 5.30	4.00 - 5.70	3.30 - 5.30	2.95 - 5.30	4.00 - 5.70
37		14.45	3.05 - 6.05	4.75 - 6.45	4.05 - 6.05	3.05 - 6.05	4.75 - 6.45
50		15.20	3.80 - 6.80	5.50 - 7.20	4.80 - 6.80	3.80 - 6.80	5.50 - 7.20
41		15.70	4.30 - 7.30	6.00 - 7.70	5.30 - 7.30	4.30 - 7.30	6.00 - 7.70
24		16.40	5.00 - 8.00	6.70 - 8.40	6.00 - 8.00	5.00 - 8.00	6.70 - 8.40
11		17.10	5.70 - 8.70	7.40 - 9.10	6.70 - 8.70	5.70 - 8.70	7.40 - 9.10

* STUB PINS - NO REAR PLUG-UP

** THE GREATEST RANGE OCCURS WHEN THE B DIMENSION OF PIN 'GND' IS ONE SIZE SHORTER THEN THE OTHER PINS.

mat'l code SEE NOTE 5				tolerances unless otherwise specified		CUSTOMER		FCI		www.fciconnect.com	
ltr	ecr no.	dr	date	linear	0.X ± 0.3	COPY		title VERTICAL SIGNAL HDR 5 ROW			
U				angles	0.XX ± 0.13	projection		P.F. 60 POS. SELECT LOAD STD.			
					.XXX ± 0.01	MM		product family METRAL 1000		code 213	
				dr	0° ± 2°	scale		size		sheet 3	
				eng	K. BELL 2000-03-15	1:1		dwg no 63743			
				chr	M. HAHN 2000-03-15						
				appd	M. HAHN 2000-03-15						
sheet index	revision sheet										

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Pro/E

cage code 22526

PDM: Rev:U

STATUS: Released

Printed: May 13, 2011

PIN CODE NO.	DIM A MATING LENGTH	DIM B TAIL LENGTH	PCB THICKNESS RANGE ACCOMMODATED BY PIN LENGTH				
			WHEN MATING TO A 73981 OR 84688 SERIES RECEPTACLE		WHEN MATING TO A 52057 SERIES METRAL 4000 RECEPTACLE		
			ROWS A,B,C,D,E	GROUND ROW	ROWS:A,B,D,E	ROW C	GROUND ROW
04*	7.25	4.30	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN
46		12.20	2.95 - 3.80	2.95 - 4.20	2.95 - 3.80	2.95 - 3.80	2.95 - 4.20
33		12.95	2.95 - 4.55	3.25 - 4.95	2.95 - 4.55	2.95 - 4.55	3.25 - 4.95
08		13.70	2.95 - 5.30	4.00 - 5.70	3.30 - 5.30	2.95 - 5.30	4.00 - 5.70
38		14.45	3.05 - 6.05	4.75 - 6.45	4.05 - 6.05	3.05 - 6.05	4.75 - 6.45
51		15.20	3.80 - 6.80	5.50 - 7.20	4.80 - 6.80	3.80 - 6.80	5.50 - 7.20
42		15.70	4.30 - 7.30	6.00 - 7.70	5.30 - 7.30	4.30 - 7.30	6.00 - 7.70
67		16.40	5.00 - 8.00	6.70 - 8.40	6.00 - 8.00	5.00 - 8.00	6.70 - 8.40
12		17.10	5.70 - 8.70	7.40 - 9.10	6.70 - 8.70	5.70 - 8.70	7.40 - 9.10
19*		8.00	4.30	1.60 MIN	1.60 MIN	1.60 MIN	1.60 MIN
47	12.20		2.95 - 3.80	2.95 - 4.20	2.95 - 3.80	2.95 - 3.80	2.95 - 4.20
34	12.95		2.95 - 4.55	3.25 - 4.95	2.95 - 4.55	2.95 - 4.55	3.25 - 4.95
20	13.70		2.95 - 5.30	4.00 - 5.70	3.30 - 5.30	2.95 - 5.30	4.00 - 5.70
39	14.45		3.05 - 6.05	4.75 - 6.45	4.05 - 6.05	3.05 - 6.05	4.75 - 6.45
52	15.20		3.80 - 6.80	5.50 - 7.20	4.80 - 6.80	3.80 - 6.80	5.50 - 7.20
43	15.70		4.30 - 7.30	6.00 - 7.70	5.30 - 7.30	4.30 - 7.30	6.00 - 7.70
68	16.40		5.00 - 8.00	6.70 - 8.40	6.00 - 8.00	5.00 - 8.00	6.70 - 8.40
21	17.10		5.70 - 8.70	7.40 - 9.10	6.70 - 8.70	5.70 - 8.70	7.40 - 9.10



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* STUB PINS - NO REAR PLUG-UP

** THE GREATEST RANGE OCCURS WHEN THE B DIMENSION OF PIN 'GND' IS ONE SIZE SHORTER THEN THE OTHER PINS.

mat'l code SEE NOTE 5				tolerances unless otherwise specified		CUSTOMER		FCI	
lir	ecr no.	dr	date	linear	0.X ± 0.3	COPY		www.fciconnect.com	
U				angles	0.XX ± 0.13	projection		title	
				dr	.XXX ± 0.01	MM		VERTICAL SIGNAL HDR 5 ROW	
				eng	0° ± Z'	scale		P.F. 60 POS. SELECT LOAD STD.	
				chr	K. BELL 2000-03-15	A		product family METRAL 1000	
				appd	M. HAHN 2000-03-15	size		code 213	
					M. HAHN 2000-03-15	scale 1:1		sheet 4	
					M. HAHN 2000-03-15			63743	
sheet index	revision sheet								

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SELECT LOAD PATTERNS													
METRAL P/N	ROW	CONTACT CODE											
		1	2	3	4	5	6	7	8	9	10	11	12
63743-X001 FOR LEAD FREE SEE NOTE 16	E	02	02	02	02	02	02	02	02	02	02	02	02
	D	02	02	02	02	02	02	02	02	02	02	02	02
	C	04	04	04	04	04	04	04	04	04	04	04	04
	B	02	02	02	02	02	02	02	02	02	02	02	02
	A	02	02	02	02	02	02	02	02	02	02	02	02
GND	02	02	02	02	02	02	02	02	02	02	02	02	
63743-X002 FOR LEAD FREE SEE NOTE 16	E	01	01	01	01	01	01	01	01	01	01	01	
	D	01	01	01	01	01	01	01	01	01	01	01	
	C	03	03	03	03	03	03	03	03	03	03	03	
	B	01	01	01	01	01	01	01	01	01	01	01	
	A	01	01	01	01	01	01	01	01	01	01	01	
GND	01	01	01	01	01	01	01	01	01	01	01		
63743-X003 *RPU FOR LEAD FREE SEE NOTE 16	E	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	
	D	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	
	C	50	50	50	50	50	50	50	50	50	50	50	
	B	48	48	48	48	48	48	48	48	48	48	48	
	A	48	48	48	48	48	48	48	48	48	48	48	
GND	48	48	48	48	48	48	48	48	48	48	48		
63743-X004 FOR LEAD FREE SEE NOTE 16	E	19	02	02	02	02	02	02	02	02	02	02	
	D	19	02	02	02	02	02	02	02	02	02	02	
	C	19	02	02	02	02	02	02	02	02	02	02	
	B	19	02	02	02	02	02	02	02	02	02	02	
	A	19	02	02	02	02	02	02	02	02	02	02	
GND	02	02	02	02	02	02	02	02	02	02	02		
63743-X005 FOR LEAD FREE SEE NOTE 16	E	01	01	01	01	01	01	01	01	01	01	01	
	D	01	01	01	01	02	01	01	01	01	01	02	
	C	01	01	01	01	01	01	01	01	01	01	01	
	B	01	01	01	01	01	01	01	01	01	01	01	
	A	01	01	03	01	03	01	01	03	01	01	03	
GND	01	01	01	01	01	01	01	01	01	01	01		

METRAL P/N	ROW	CONTACT CODE											
		1	2	3	4	5	6	7	8	9	10	11	12
63743-X006 FOR LEAD FREE SEE NOTE 16	E	01	01	01	01	01	01	01	01	01	01	01	
	D	02	01	01	01	01	01	02	01	01	01	01	
	C	02	01	01	01	01	01	02	01	01	01	01	
	B	03	03	03	03	03	03	03	03	03	03	03	
A	01	01	01	01	01	01	01	01	01	01	01		
GND	01	01	01	01	01	01	01	01	01	01	01		
63743-X007 FOR LEAD FREE SEE NOTE 16	E	02	02	02	02	01	02	02	02	02	02	02	
	D	02	02	02	02	02	02	02	02	02	02	02	
	C	02	02	02	02	02	02	02	02	02	02	02	
	B	02	02	02	02	02	02	02	02	02	02	02	
A	02	02	02	02	02	02	02	02	02	02	02		
GND	02	02	02	02	02	02	02	02	02	02	02		
63743-X008 FOR LEAD FREE SEE NOTE 16	E	02	02	02	02	01	02	02	02	02	02	02	
	D	02	02	02	02	02	02	02	02	02	02	02	
	C	02	02	02	02	02	02	02	02	02	02	02	
	B	02	02	02	02	03	02	02	02	02	03	02	
A	02	02	02	02	02	02	02	02	02	02	02		
GND	02	02	02	02	02	02	02	02	02	02	02		
63743-X009 *RPU FOR LEAD FREE SEE NOTE 16	E	06	05	06	05	06	05	06	05	06	05	06	
	D	06	06	06	06	06	05	06	05	05	05	05	
	C	06	05	05	05	05	05	06	05	05	05	05	
	B	06	05	05	05	05	06	05	05	05	05	05	
A	06	05	05	05	05	06	05	05	05	05	05		
GND	31	31	31	31	31	31	31	31	31	31	31		
63743-X010 FOR LEAD FREE SEE NOTE 16	E	55	55	02	02	02	02	55	55	55	55	55	
	D	55	55	02	02	02	02	55	55	55	55	55	
	C	55	55	02	02	02	02	55	55	55	55	55	
	B	55	55	02	02	02	02	55	55	55	55	55	
A	55	55	02	02	02	02	55	55	55	55	55		
GND	55	55	02	02	02	02	55	55	55	55	55		

METRAL P/N	ROW	CONTACT CODE											
		1	2	3	4	5	6	7	8	9	10	11	12
63743-X011 FOR LEAD FREE SEE NOTE 16	E	55	55	55	55	55	55	55	55	55	55	55	
	D	55	55	55	55	55	55	55	55	55	55	55	
	C	55	55	55	55	55	55	55	55	55	55	55	
	B	55	55	55	55	55	55	55	55	55	55	55	
A	55	55	55	55	55	55	55	55	55	55	55		
GND	55	55	55	55	55	55	55	55	55	55	55		
63743-X012 FOR LEAD FREE SEE NOTE 16	E	02	02	02	02	02	02	02	02	02	02	02	
	D	02	02	02	02	02	02	02	02	02	02	02	
	C	02	02	02	02	02	02	02	02	02	02	02	
	B	02	02	02	02	02	02	02	02	02	02	02	
A	02	02	02	02	02	02	02	02	02	02	02		
GND	-	02	02	02	02	-	-	02	02	02	02		

PCB THICKNESS
RANGE FOR REAR
PLUG UP
APPLICATIONS:
3.25 - 4.99 FOR
METRAL 1000
RECEPTACLE
APPLICATIONS AND 3.30 - 4.95
FOR METRAL
4000 APPLICATIONS

NOT A STANDARD METRAL 1000
OR METRAL 4000 APPLICATION



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*REAR PLUG-UP PART NUMBER

mat'l code	SEE NOTE 5	tolerances unless otherwise specified	CUSTOMER	www.fciconnect.com
ltr	ecn no.	dr	date	
U				projection
				linear
				0.X ± 0.3
				0.XX ± 0.13
				.XXX ± 0.01
				angles
				0° ± 2°
				dr
				K. BELL 2000-03-15
				engr
				M. HAHN 2000-03-15
				chr
				M. HAHN 2000-03-15
				appd
				M. HAHN 2000-03-15
sheet index	revision sheet			product family
				METRAL 1000
				code
				213
				sheet
				5
				scale
				1:1
				size
				A
				dwg no
				63743
				cage code
				22526

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Pro/E

PDM: Rev:U

STATUS: Released

Printed: May 13, 2011

PRODUCT NUMBER
SEE SHEET 1

NOTES:

1. SEE APPLICATION SPECIFICATION GS-20-010 FOR INFORMATION ON AVAILABLE TOOLING, CIRCUIT BOARD DESIGN CONSIDERATIONS, REPAIR PROCEDURES AND PRODUCT OFFERINGS.
2. SEE FCI PUBLICATION 950511-028 FOR "ELECTRICAL PERFORMANCE DATA FOR DIFFERENTIAL APPLICATIONS."
3. SEE FCI PUBLICATION 950511-029 FOR "ELECTRICAL PERFORMANCE DATA FOR SINGLE-ENDED APPLICATION."
4. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5, 1994
5. HOUSING MATERIAL: LIQUID CRYSTAL POLYMER, 30% GLASS FILLED, FLAME RETARDANT PER UL 94-V0.
PIN MATERIAL: PHOSPHOR BRONZE
GROUND SPRING MATERIAL: PHOSPHOR BRONZE
6. PLATING INFORMATION: PLATING IN CONTACT AREAS MEET PERFORMANCE LEVELS SHOWN IN TABLE ON SHEET 1.
PLATING ON "LF" TAILS IS Sn ONLY, ALL OTHERS ARE SnPb.

7. DIMENSIONAL RESTRICTIONS OF PINS IN HEADERS.

FOR MATING WITH METRAL 1000 RECEPTACLES
 DIM A : 5.00mm MIN, 8.00mm MAX FOR ROWS A-E
 DIM A : 5.00mm MIN, 5.75mm MAX FOR ROW GND NEXT TO ROW A
 DIM C : 5.00mm MIN, 8.00mm MAX FOR ROWS A-E
 DIM C : 4.60mm MIN, 6.30mm MAX FOR ROW GND NEXT TO ROW A
 FOR MATING WITH METRAL 4000 RECEPTACLES
 DIM A : 5.00mm MIN, 6.50mm MAX FOR ROWS A, B, D & E
 DIM A : 5.00mm MIN, 8.00mm MAX FOR ROW C
 DIM A : 5.00mm MIN, 5.75mm MAX FOR ROW GND NEXT TO ROW A
 DIM C : 5.00mm MIN, 7.00mm MAX FOR ROWS A, B, D & E
 DIM C : 5.00mm MIN, 8.00mm MAX FOR ROW C
 DIM C : 4.60mm MIN, 6.30mm MAX FOR ROW GND NEXT TO ROW A

8. THE MIN PCB THICKNESS FOR REAR PLUG-UP APPLICATIONS IS 2.9mm SINCE THE COMPLIANT SECTIONS OF THE GROUND SPRING OF THE HEADER DIRECTLY OPPOSE THE GROUND SPRING OF THE SHROUD.
THE MIN PCB THICKNESS FOR FRONT PLUG-UP ONLY APPLICATIONS IS 1.6mm.

9. THESE HOLES ARE NEEDED FOR REAR PLUG-UP DESIGNS USING A SHROUD AND MAY BE OMITTED FOR FRONT PLUG-UP ONLY DESIGNS.
10. THE 'CONNECTOR OUTLINE' IS THE MIN OUTLINE REQUIRED. TO DETERMINE THE OUTLINE NECESSARY TO PERMIT THE VARIOUS TYPES OF REPAIR OPERATIONS, SEE APPLICATION SPECIFICATION GS-20-010.

11. CURRENT RATING: 1 AMP PER PIN
12. TEMPERATURE RANGE: -55°C TO +105°C
13. P/N 63743-XXXXLF



14. A PLATING HAS Au FLASH IN PRESS-FIT AREA (LEAD FREE).
15. THE PRODUCTS WHERE THE PART NUMBER ENDS IN LF MEET THE EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.

ALL PRODUCTS WILL WITHSTAND EXPOSURE TO 260°C FOR 60 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.

16. FOR LEAD FREE PART NUMBERS, ADD AN "LF" SUFFIX.
EXAMPLE: 63743-X01LF
17. EQUIVALENT PRECIOUS METAL PLATINGS MAY BE SUBSTITUTED.
18. PIN TYPE IS AT THE MANUFACTURERS OPTION AND CAN BE EITHER BABY-H OR EYE OF THE NEEDLE STYLE

mat'l code		SEE NOTE 5		tolerances unless otherwise specified		CUSTOMER		FCI		www.fciconnect.com	
lfr	ecr no.	dr	date	linear	0.X ± 0.3	COPY		projection		title	
U					0.XX ± 0.13	←		↗		VERTICAL SIGNAL HDR 5 ROW	
				angles	.XXX ± .051	MM		product family		METRAL 1000	
				dr	0° ± 2°	←		size		code	
				eng	K. BELL 2000-03-15	←		dwg no		213	
				chr	M. HAHN 2000-03-15	←		63743		sheet	
				appd	M. HAHN 2000-03-15	←		A		6	
sheet index	revision sheet										

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