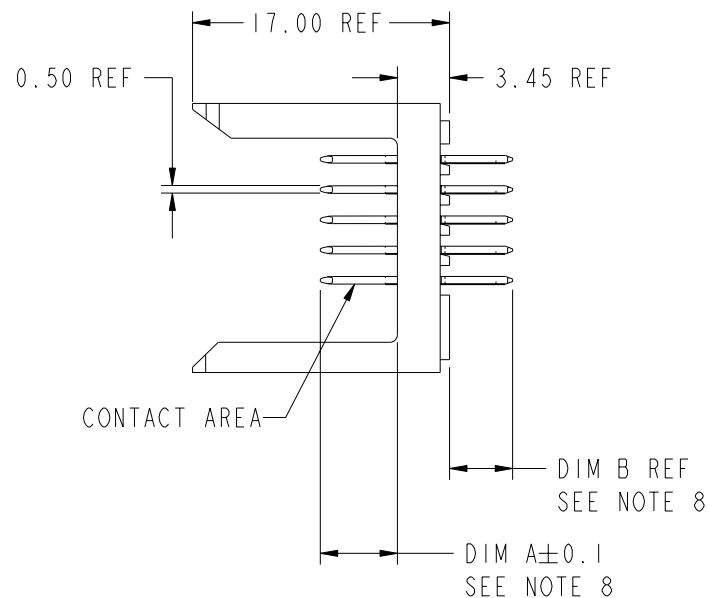
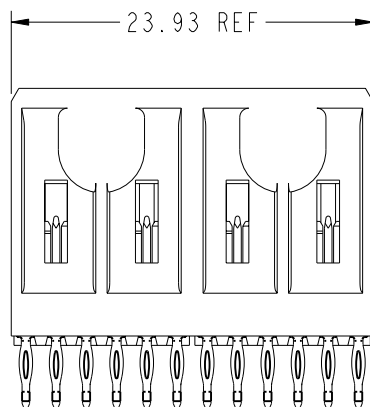
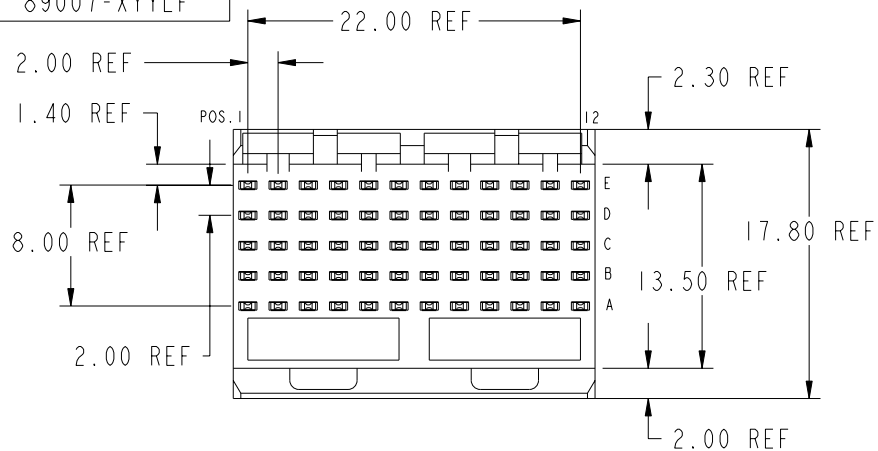
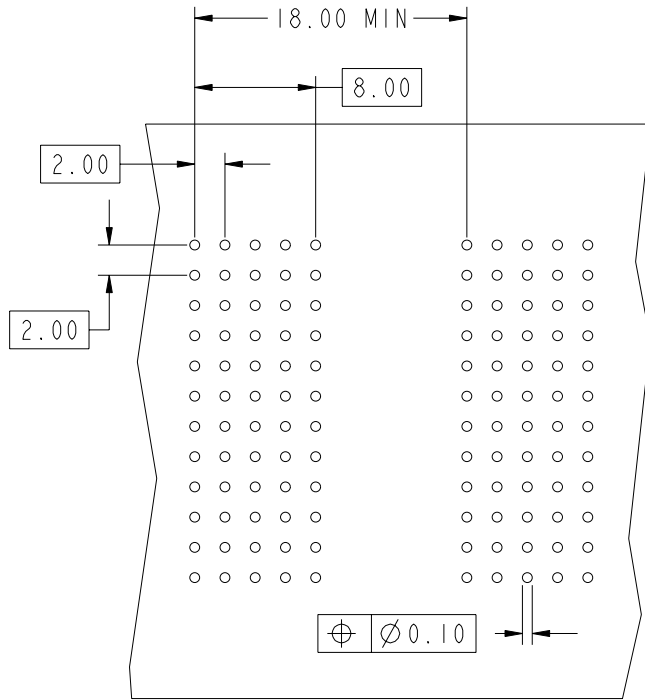




PRODUCT NUMBER
89007-XY
89007-XYLF



mat'l code				tolerances unless otherwise specified				CUSTOMER				FCi												
ltr	ecn no.	dr	date	linear	0.X ±0.3			COPY				www.fciconnect.com												
T	V06-0119	LP	2006/04/24		0.XX ±0.13			projection	title METRAL SIGNAL HEADER 2 MOD, 5 ROW PRESS-FIT															
-	-	-	-		.XXX ±.051																			
M	V03-0981	DAI	09/05/03	angles	0° ±2°																			
N	V03-1321	DAI	01/15/04	dr	T.BRUNGARD	11/19/99			MM				product family				METRAL				code			
P	V04-0459	LP	5/25/04	enr	M.STRAWER	11/19/99							size				dwg no				213			
R	V05-0030	DAI	02/10/05	chr	M.STRAWER	11/19/99			scale				A				89007				sheet			
S	V05-0235	LP	3/30/05	appd	M.STRAWER	02/29/00			2:1												1 of 1			
sheet		revision		T	T	T	T	T	T	T	T	T												
index		sheet		1	2	3	4	5	6	7	8	9	10	11										



REQUIRED PC BOARD LAYOUT
COMPONENT SIDE
SEE PRINT 58351 FOR
ADDITIONAL PCB INFORMATION

KEY (SIGNAL PF)

CODE	DIMENSIONS	
	DIM "A" MATE	DIM "B" TAIL
1	5.00	4.30
2	5.75	4.30
3	6.50	4.30
4	7.25	4.30
5	5.00	13.60
6	5.75	13.60
7	6.50	13.60
8	7.25	13.60
9	5.00	17.00
10	5.75	17.00
11	6.50	17.00
12	7.25	17.00
13	8.25	4.30
14	8.25	13.60
15	8.25	17.00
16	7.00	4.30
17	7.00	13.60
18	7.00	17.00
19	8.00	4.30
20	8.00	13.60
21	8.00	17.00

mat'l code				tolerances unless otherwise specified		CUSTOMER		FCI		www.fciconnect.com	
ltr	ecn no.	dr	date	linear	0.X ±0.3	projection	COPY	title	product family	code	sheet
T					0.XX ±0.13						
					.XXX ±.051						
				angles	0° ±2°	MM	scale	A	size	dwg no	213
				dr	T.BRUNGARD 11/19/99						
				enr	M.STRAWSE 11/19/99						
				chr	M.STRAWSE 11/19/99	1:1	A	89007	2	2	2
				appd	M.STRAWSE 02/29/00						
sheet	revision										
index	sheet										



1 2												3 4																															
METRAL P/N		CONTACT CODE MOD. 1						MOD. 2						METRAL P/N		CONTACT CODE MOD. 1						MOD. 2						METRAL P/N		CONTACT CODE MOD. 1						MOD. 2							
ROW		1	2	3	4	5	6	7	8	9	10	11	12	ROW		1	2	3	4	5	6	7	8	9	10	11	12	ROW		1	2	3	4	5	6	7	8	9	10	11	12		
89007-X10 SEE NOTE10 LEAD FREE OPTION		E	1	1	1	1	1	1	1	1	1	1	1	89007-X14 SEE NOTE10 LEAD FREE OPTION		E	4	4	4	4	4	4	4	4	4	4	4	89007-X19 SEE NOTE10 LEAD FREE OPTION		E	4	4	4	4	4	4	4	4	4	4	4	4	
		D	1	1	1	1	1	1	1	1	1	1	1			D	4	4	4	4	4	4	4	4	4	4	4			4	D	4	4	4	4	4	4	4	4	4	4	4	4
		C	1	1	1	1	1	1	1	1	1	1	1			C	4	4	4	4	4	4	4	4	4	4	4			4	C	4	4	4	4	4	4	4	4	4	4	4	4
		B	1	1	1	1	1	1	1	1	1	1	1			B	4	4	4	4	4	4	4	4	4	4	4			4	B	4	4	4	4	4	4	4	4	4	4	4	4
		A	1	1	1	1	1	1	1	1	1	1	1			A	4	4	4	4	4	4	4	4	4	4	4			4	A	4	4	4	4	4	4	4	4	4	4	4	4
89007-X11 SEE NOTE10 LEAD FREE OPTION		E	3	3	3	3	3	3	3	3	3	3	3	89007-X15 SEE NOTE10 LEAD FREE OPTION		E	1	1	1	1	1	1	1	1	1	1	1	89007-X20 SEE NOTE10 LEAD FREE OPTION		E	5	5	5	5	5	5	5	5	5	5	5	5	
		D	3	3	3	3	3	3	3	3	3	3	3			D	5	5	5	5	5	5	5	5	5	5	5			5	D	5	5	5	5	5	5	5	5	5	5	5	
		C	3	3	3	3	3	3	3	3	3	3	3			C	5	5	5	5	5	5	5	5	5	5	5			5	C	5	5	5	5	5	5	5	5	5	5	5	
		B	3	3	3	3	3	3	3	3	3	3	3			B	5	5	5	5	5	5	5	5	5	5	5			5	B	5	5	5	5	5	5	5	5	5	5	5	
		A	3	3	3	3	3	3	3	3	3	3	3			A	5	5	5	5	5	5	5	5	5	5	5			5	A	5	5	5	5	5	5	5	5	5	5	5	
89007-X12 SEE NOTE10 LEAD FREE OPTION		E	4	4	4	4	4	4	4	4	4	4	4	89007-X16 SEE NOTE10 LEAD FREE OPTION		E	2	2	2	2	2	2	2	2	2	2	2	89007-X21 SEE NOTE10 LEAD FREE OPTION		E	7	7	7	7	7	7	7	7	7	7	7	7	
		D	3	3	3	3	3	3	3	3	3	3	3			D	2	2	2	2	2	2	2	2	2	2	2			D	7	7	7	7	7	7	7	7	7	7	7		
		C	3	3	3	3	3	3	3	3	3	3	3			C	2	2	2	2	2	2	2	2	2	2	2			C	7	7	7	7	7	7	7	7	7	7	7		
		B	1	1	1	1	1	1	1	1	1	1	1			B	2	2	2	2	2	2	2	2	2	2	2			B	7	7	7	7	7	7	7	7	7	7	7		
		A	1	1	1	1	1	1	1	1	1	1	1			A	2	2	2	2	2	2	2	2	2	2	2			A	7	7	7	7	7	7	7	7	7	7	7		
89007-X13 SEE NOTE10 LEAD FREE OPTION		E	4	4	4	4	4	4	4	4	4	4	4	89007-X17 SEE NOTE10 LEAD FREE OPTION		E	2	2	2	2	2	2	2	2	2	2	2	89007-X22 SEE NOTE10 LEAD FREE OPTION		E	8	8	8	8	8	8	8	8	8	8	8	8	
		D	1	9	1	9	1	9	1	9	1	9	1			D	2	2	2	2	2	2	2	2	2	2	2			D	7	7	7	7	7	7	7	7	7	7	7		
		C	4	4	4	4	4	4	4	4	4	4	4			C	2	2	2	2	2	2	2	2	2	2	2			C	7	7	7	7	7	7	7	7	7	7	7		
		B	4	4	4	4	4	4	4	4	4	4	4			B	2	2	2	2	2	2	2	2	2	2	2			B	5	5	5	5	5	5	5	5	5	5	5		
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mat'l code				tolerances unless otherwise specified				CUSTOMER		FCJ	
ltr	ecr no.	dr	date	linear		angles		COPY		title	
T				0.X ±0.3		0° ±2°		projection		METRAL SIGNAL HEADER 2 MOD, 5 ROW PRESS-FIT	
				0.XX ±0.13						product family METRAL code 213	
				.XXX ±.051						size A	
				dr T.BRUNGARD 11/19/99				scale 1:1		sheet 3	
				enrg M.STRAWSE 11/19/99						cage code 22526	
				chr M.STRAWSE 11/19/99							
				appd M.STRAWSE 02/29/00							
sheet index	revision sheet										

Pro/E 3

STATUS: Released Printed: Nov 13, 2007



A

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
89007-X23 SEE NOTE10 LEAD FREE OPTION	E	8	8	8	8	8	8	8	8	8	8
	D	20	20	20	20	20	20	20	20	20	20
	C	8	8	8	8	8	8	8	8	8	8
	B	8	8	8	8	8	8	8	8	8	8
	A	8	8	8	8	8	8	8	8	8	8
89007-X24 SEE NOTE10 LEAD FREE OPTION	E	8	8	8	8	8	8	8	8	8	8
	D	7	7	7	7	7	7	7	7	7	7
	C	8	8	8	8	8	8	8	8	8	8
	B	8	8	8	8	8	8	8	8	8	8
	A	8	8	8	8	8	8	8	8	8	8
89007-X25 SEE NOTE10 LEAD FREE OPTION	E	5	5	5	5	5	5	5	5	5	5
	D	5	5	5	5	5	5	5	5	5	5
	C	5	5	5	5	5	5	5	5	5	5
	B	5	5	5	5	5	5	5	5	5	5
	A	7	7	7	7	7	7	7	7	7	7
89007-X26 SEE NOTE10 LEAD FREE OPTION	E	6	6	6	6	6	6	6	6	6	6
	D	6	6	6	6	6	6	6	6	6	6
	C	6	6	6	6	6	6	6	6	6	6
	B	6	6	6	6	6	6	6	6	6	6
	A	6	6	6	6	6	6	6	6	6	6

1 | 2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
89007-X27 SEE NOTE10 LEAD FREE OPTION	E	6	6	6	6	6	6	6	6	6	6
	D	6	6	6	6	6	6	6	6	6	6
	C	6	6	6	6	6	6	6	6	6	6
	B	6	6	6	6	6	6	6	6	6	6
	A	20	20	20	20	20	20	20	20	20	20
89007-X29 SEE NOTE10 LEAD FREE OPTION	E	8	8	8	8	8	8	8	8	8	8
	D	8	8	8	8	8	8	8	8	8	8
	C	8	8	8	8	8	8	8	8	8	8
	B	8	8	8	8	8	8	8	8	8	8
	A	8	8	8	8	8	8	8	8	8	8
89007-X30 SEE NOTE10 LEAD FREE OPTION	E	9	9	9	9	9	9	9	9	9	9
	D	9	9	9	9	9	9	9	9	9	9
	C	9	9	9	9	9	9	9	9	9	9
	B	9	9	9	9	9	9	9	9	9	9
	A	9	9	9	9	9	9	9	9	9	9
89007-X31 SEE NOTE10 LEAD FREE OPTION	E	11	11	11	11	11	11	11	11	11	11
	D	11	11	11	11	11	11	11	11	11	11
	C	11	11	11	11	11	11	11	11	11	11
	B	11	11	11	11	11	11	11	11	11	11
	A	11	11	11	11	11	11	11	11	11	11

3 |

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
89007-X32 SEE NOTE10 LEAD FREE OPTION	E	12	12	12	12	12	12	12	12	12	12
	D	11	11	11	11	11	11	11	11	11	11
	C	11	11	11	11	11	11	11	11	11	11
	B	9	9	9	9	9	9	9	9	9	9
	A	9	9	9	9	9	9	9	9	9	9
89007-X33 SEE NOTE10 LEAD FREE OPTION	E	12	12	12	12	12	12	12	12	12	12
	D	21	21	21	21	21	21	21	21	21	21
	C	12	12	12	12	12	12	12	12	12	12
	B	12	12	12	12	12	12	12	12	12	12
	A	12	12	12	12	12	12	12	12	12	12
89007-X34 SEE NOTE10 LEAD FREE OPTION	E	12	12	12	12	12	12	12	12	12	12
	D	11	11	11	11	11	11	11	11	11	11
	C	12	12	12	12	12	12	12	12	12	12
	B	12	12	12	12	12	12	12	12	12	12
	A	12	12	12	12	12	12	12	12	12	12
89007-X35 SEE NOTE10 LEAD FREE OPTION	E	9	9	9	9	9	9	9	9	9	9
	D	9	9	9	9	9	9	9	9	9	9
	C	9	9	9	9	9	9	9	9	9	9
	B	9	9	9	9	9	9	9	9	9	9
	A	11	11	11	11	11	11	11	11	11	11

A

B

mat'l code				tolerances unless otherwise specified				CUSTOMER		FCi www.fciconnect.com	
ltr	ecn no.	dr	date	linear	0.X ±0.3			projection	COPY		
T					0.XX ±0.13				title		
					.XXX ±.051				METRAL SIGNAL HEADER 2 MOD, 5 ROW PRESS-FIT		
				angles	0° ±2°			MM scale 1:1	product family		code
				dr	T.BRUNGARD	11/19/99	METRAL		213		
				engr	M.STRAWSER	11/19/99	size		4		
				chr	M.STRAWSER	11/19/99	dwg no		89007		
				appd	M.STRAWSER	02/29/00	A				
sheet	revision										
index	sheet										

B

1 | 2

Pro/E

3 |

cage code 22526

4



2												3												4																																																																																																																																																																																																																																																																																									
A																								A																																																																																																																																																																																																																																																																																									
<table border="1"><thead><tr><th rowspan="2">METRAL P/N</th><th rowspan="2">ROW</th><th colspan="5">CONTACT CODE MOD. 1</th><th colspan="5">MOD. 2</th></tr><tr><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>10</th><th>11</th><th>12</th></tr></thead><tbody><tr><td rowspan="5">89007-X36 SEE NOTE10 LEAD FREE OPTION</td><td>E</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td></tr><tr><td>D</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td></tr><tr><td>C</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td></tr><tr><td>B</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td></tr><tr><td>A</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td><td>10</td></tr></tbody></table>												METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					1	2	3	4	5	6	7	8	9	10	11	12	89007-X36 SEE NOTE10 LEAD FREE OPTION	E	10	10	10	10	10	10	10	10	10	10	10	10	D	10	10	10	10	10	10	10	10	10	10	10	10	C	10	10	10	10	10	10	10	10	10	10	10	10	B	10	10	10	10	10	10	10	10	10	10	10	10	A	10	10	10	10	10	10	10	10	10	10	10	10	<table border="1"><thead><tr><th rowspan="2">METRAL P/N</th><th rowspan="2">ROW</th><th colspan="5">CONTACT CODE MOD. 1</th><th colspan="5">MOD. 2</th></tr><tr><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>10</th><th>11</th><th>12</th></tr></thead><tbody><tr><td rowspan="5">89007-X41 SEE NOTE10 LEAD FREE OPTION</td><td>E</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>D</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></tr><tr><td>C</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>B</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>A</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td></tr></tbody></table>												METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					1	2	3	4	5	6	7	8	9	10	11	12	89007-X41 SEE NOTE10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2	D	1	1	1	1	1	1	1	1	1	1	1	1	C	2	2	2	2	2	2	2	2	2	2	2	2	B	2	2	2	2	2	2	2	2	2	2	2	2	A	3	3	3	3	3	3	3	3	3	3	3	3	<table border="1"><thead><tr><th rowspan="2">METRAL P/N</th><th rowspan="2">ROW</th><th colspan="5">CONTACT CODE MOD. 1</th><th colspan="5">MOD. 2</th></tr><tr><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>10</th><th>11</th><th>12</th></tr></thead><tbody><tr><td rowspan="5">89007-X45 SEE NOTE10 LEAD FREE OPTION</td><td>E</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></tr><tr><td>D</td><td>19</td><td>19</td><td>19</td><td>19</td><td>19</td><td>19</td><td>19</td><td>19</td><td>19</td><td>19</td><td>19</td><td>19</td></tr><tr><td>C</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></tr><tr><td>B</td><td>19</td><td>19</td><td>19</td><td>19</td><td>19</td><td>19</td><td>19</td><td>19</td><td>19</td><td>19</td><td>19</td><td>19</td></tr><tr><td>A</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></tr></tbody></table>												METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2					1	2	3	4	5	6	7	8	9	10	11	12	89007-X45 SEE NOTE10 LEAD FREE OPTION	E	1	1	1	1	1	1	1	1	1	1	1	1	D	19	19	19	19	19	19	19	19	19	19	19	19	C	1	1	1	1	1	1	1	1	1	1	1	1	B	19	19	19	19	19	19	19	19	19	19	19	19	A	1	1	1	1	1	1	1	1	1	1	1	1
METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2																																																																																																																																																																																																																																																																																																										
		1	2	3	4	5	6	7	8	9	10	11	12																																																																																																																																																																																																																																																																																																				
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ltr	ecn no.	dr	date	linear	0.X ±0.3			projection	COPY	www.fciconnect.com			
T					0.XX ±0.13					title			
					.XXX ±.051					METRAL SIGNAL HEADER			
					0° ±2°					2 MOD, 5 ROW PRESS-FIT			
				angles	dr	T.BRUNGARD	11/19/99		MM	product family		METRAL	code
				enrg	M.STRAWSER	11/19/99	size			dwg no	213		
				chr	M.STRAWSER	11/19/99	scale			A	89007	sheet	
				appd	M.STRAWSER	02/29/00	1:1			5			
sheet		revision											
index		sheet											

2				3				4							
Pro/E				3				cage code 22526				4			

PDM: Rev:T STATUS:Released Printed: Nov 13, 2007

METRAL P/N	ROW	CONTACT CODE MOD. 1						MOD. 2					
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89007-X49 SEE NOTE 10 LEAD FREE OPTION.	E	4	4	4	4	4	4	4	4	4	4	4	4
	D	3	3	3	3	3	3	3	3	3	3	3	3
	C	3	3	3	3	3	3	3	3	3	3	3	3
	B	3	3	3	3	3	3	3	3	3	3	3	3
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[illegible][illegible][illegible][illegible][illegible][illegible][illegible]

METRAL P/N	ROW	CONTACT CODE MOD. 1						MOD. 2					
		1	2	3	4	5	6	7	8	9	10	11	12
89007-X57 SEE NOTE 10 LEAD FREE OPTION	E	6	6	6	6	6	6	6	6	6	6	6	6
	D	7	7	7	7	7	7	7	7	7	7	7	7
	C	6	6	6	6	6	6	6	6	6	6	6	6
	B	6	6	6	6	6	6	6	6	6	6	6	6
	A	7	7	7	7	7	7	7	7	7	7	7	7




METRAL P/N	ROW	CONTACT CODE MOD. 1						MOD. 2					
		1	2	3	4	5	6	7	8	9	10	11	
89007-X58 SEE NOTE 10 LEAD FREE OPTION	E	20	20	20	20	20	20	20	20	20	20	20	
	D	20	20	20	20	20	20	20	20	20	20	20	
	C	20	20	20	20	20	20	20	20	20	20	20	
	B	20	20	20	20	20	20	20	20	20	20	20	
	A	20	20	20	20	20	20	20	20	20	20	20	

[illegible]

METAL P/N	ROW	CONTACT CODE MOD. 1						MOD. 2					
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89007-X60 SEE NOTE 10 LEAD FREE OPTION	E	10	10	10	10	10	10	10	10	10	10	10	10
	D	10	10	10	10	10	10	10	10	10	10	10	10
	C	10	10	10	10	10	10	10	10	10	10	10	10
	B	12	12	12	12	12	12	12	12	12	12	12	12
	A	10	10	10	10	10	10	10	10	10	10	10	10



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lfr	ecn no.	dr	date	linear	0.X ±0.3	COPY projection 	title METRAL SIGNAL HEADER 2 MOD, 5 ROW PRESS-FIT		
T					0.XX ±0.13				
					.XXX ±.051				
				angles	0° ±2°				
		dr	T.BRUNGARD	11/19/99		product family		METRAL	code
		engr	M. STRAWSER	11/19/99		size	dwg no	213	
		chr	M. STRAWSER	11/19/99		scale	89007		sheet
		appd	M. STRAWSER	02/29/00	1:1	A			6
sheet index	revision sheet								



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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
89007-X61 SEE NOTE10 LEAD FREE OPTION	E	10	10	10	10	10	10	10	10	10	10
	D	9	9	9	9	9	9	9	9	9	9
	C	10	10	10	10	10	10	10	10	10	10
	B	10	10	10	10	10	10	10	10	10	10
	A	11	11	11	11	11	11	11	11	11	11

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
89007-X62 SEE NOTE10 LEAD FREE OPTION	E	10	10	10	10	10	10	10	10	10	10
	D	12	12	12	12	12	12	12	12	12	12
	C	12	12	12	12	12	12	12	12	12	12
	B	11	11	11	11	11	11	11	11	11	11
	A	12	12	12	12	12	12	12	12	12	12

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
89007-X63 SEE NOTE10 LEAD FREE OPTION	E	10	10	10	10	10	10	10	10	10	10
	D	10	10	10	10	10	10	10	10	10	10
	C	10	10	10	10	10	10	10	10	10	10
	B	10	10	10	10	10	10	10	10	10	10
	A	12	12	12	12	12	12	12	12	12	12

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
89007-X64 SEE NOTE10 LEAD FREE OPTION	E	9	9	9	9	9	9	9	9	9	9
	D	11	11	11	11	11	11	11	11	11	11
	C	12	12	12	12	12	12	12	12	12	12
	B	11	11	11	11	11	11	11	11	11	11
	A	9	9	9	9	9	9	9	9	9	9

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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
89007-X65 SEE NOTE10 LEAD FREE OPTION	E	9	9	9	9	9	9	9	9	9	9
	D	21	21	21	21	21	21	21	21	21	21
	C	9	9	9	9	9	9	9	9	9	9
	B	21	21	21	21	21	21	21	21	21	21
	A	9	9	9	9	9	9	9	9	9	9

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
89007-X66 SEE NOTE10 LEAD FREE OPTION	E	10	10	10	10	10	10	10	10	10	10
	D	10	10	10	10	10	10	10	10	10	10
	C	12	12	12	12	12	12	12	12	12	12
	B	10	10	10	10	10	10	10	10	10	10
	A	10	10	10	10	10	10	10	10	10	10

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
89007-X67 SEE NOTE10 LEAD FREE OPTION	E	10	10	10	10	10	10	10	10	10	10
	D	11	11	11	11	11	11	11	11	11	11
	C	10	10	10	10	10	10	10	10	10	10
	B	10	10	10	10	10	10	10	10	10	10
	A	11	11	11	11	11	11	11	11	11	11

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
89007-X68 SEE NOTE10 LEAD FREE OPTION	E	21	21	21	21	21	21	21	21	21	21
	D	21	21	21	21	21	21	21	21	21	21
	C	21	21	21	21	21	21	21	21	21	21
	B	21	21	21	21	21	21	21	21	21	21
	A	21	21	21	21	21	21	21	21	21	21

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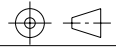
METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
89007-X69 SEE NOTE10 LEAD FREE OPTION	E	12	12	12	12	12	12	12	12	12	12
	D	11	11	11	11	11	11	11	11	11	11
	C	11	11	11	11	11	11	11	11	11	11
	B	11	11	11	11	11	11	11	11	11	11
	A	21	21	21	21	21	21	21	21	21	21

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
89007-X70 SEE NOTE10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2
	D	2	2	2	2	2	2	2	2	2	2
	C	3	3	3	3	3	3	3	3	3	3
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	A	2	2	2	2	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
89007-X71 SEE NOTE10 LEAD FREE OPTION	E	3	3	3	3	3	3	3	3	3	3
	D	19	19	19	19	19	19	19	19	19	19
	C	3	3	3	3	3	3	3	3	3	3
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	A	3	3	3	3	3	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
89007-X72 SEE NOTE10 LEAD FREE OPTION	E	19	19	19	19	19	19	19	19	19	19
	D	1	1	1	1	1	1	1	1	1	1
	C	1	1	1	1	1	1	1	1	1	1
	B	1	1	1	1	1	1	1	1	1	1
	A	19	19	19	19	19	19	19	19	19	19

A

mat'l code				tolerances unless otherwise specified				CUSTOMER		 www.fciconnect.com		
ltr	ecr no.	dr	date	linear	0.X ±0.3				projection	COPY		
T					0.XX ±0.13					title		
					.XXX ±.051					METRAL SIGNAL HEADER		
				angles	0° ±2°				MM ←→	product family		code
				dr	T.BRUNGARD	11/19/99		METRAL		213		
				engr	M.STRAWSER	11/19/99		size		sheet		
				chr	M.STRAWSER	11/19/99		scale	dwg no		7	
				appd	M.STRAWSER	02/29/00			89007			
sheet	revision											
index	sheet											

B

1 | 2

Pro/E

3 |

cage code 22526

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METRAL P/N	ROW	CONTACT CODE MOD. 1						MOD. 2					
		1	2	3	4	5	6	7	8	9	10	11	12
89007-X73 SEE NOTE 10 LEAD FREE OPTION	E	4	4	4	4	4	4	4	4	4	4	4	4
	D	4	4	4	4	4	4	4	4	4	4	4	4
	C	4	4	4	4	4	4	4	4	4	4	4	4
	B	4	4	4	4	4	4	4	4	4	4	4	4
	A	13	13	13	13	13	13	13	13	13	13	13	13

[illegible]

METRAL P/N	ROW	CONTACT CODE MOD. 1						MOD. 2					
		1	2	3	4	5	6	7	8	9	10	11	12
89007-X75 SEE NOTE 10 LEAD FREE OPTION	E	3	3	3	3	3	3	3	3	3	3	3	3
	D	3	3	3	3	3	3	3	3	3	3	3	3
	C	2	2	2	2	2	2	2	2	2	2	2	2
	B	3	3	3	3	3	3	3	3	3	3	3	3
	A	3	3	3	3	3	3	3	3	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. 1						MOD. 2					
		1	2	3	4	5	6	7	8	9	10	11	12
89007-X76 SEE NOTE 10 LEAD FREE OPTION	E	I	I	I	I	I	I	I	I	I	I	I	I
	D	I	I	I	I	I	I	I	I	I	I	I	I
	C	I	I	I	I	I	I	I	I	I	I	I	I
	B	I	I	I	I	I	I	I	I	I	I	I	I
	A	4	4	4	4	4	4	4	4	4	4	4	4

[illegible][illegible][illegible][illegible]

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[illegible][illegible]

METRAL P/N	ROW	CONTACT CODE MOD. 1						MOD. 2					
		1	2	3	4	5	6	7	8	9	10	11	12
89007-X83 SEE NOTE 10 LEAD FREE OPTION	E	8	8	8	8	8	8	8	8	8	8	8	8
	D	8	8	8	8	8	8	8	8	8	8	8	8
	C	8	8	8	8	8	8	8	8	8	8	8	8
	B	8	8	8	8	8	8	8	8	8	8	8	8
	A	14	14	14	14	14	14	14	14	14	14	14	14

METAL P/N	ROW	CONTACT CODE MOD. I						MOD. 2					
		1	2	3	4	5	6	7	8	9	10	11	12
89007-X84 SEE NOTE 10 LEAD FREE OPTION	E	14	14	14	14	14	14	14	14	14	14	14	14
	D	8	8	8	8	8	8	8	8	8	8	8	8
	C	7	7	7	7	7	7	7	7	7	7	7	7
	B	8	8	8	8	8	8	8	8	8	8	8	8
	A	14	14	14	14	14	14	14	14	14	14	14	14



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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
89007-X85 SEE NOTE 10 LEAD FREE OPTION	E	7	7	7	7	7	7	7	7	7	7
	D	7	7	7	7	7	7	7	7	7	7
	C	6	6	6	6	6	6	6	6	6	6
	B	7	7	7	7	7	7	7	7	7	7
	A	7	7	7	7	7	7	7	7	7	7
METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
89007-X86 SEE NOTE 10 LEAD FREE OPTION	E	5	5	5	5	5	5	5	5	5	5
	D	5	5	5	5	5	5	5	5	5	5
	C	5	5	5	5	5	5	5	5	5	5
	B	5	5	5	5	5	5	5	5	5	5
	A	8	8	8	8	8	8	8	8	8	8
METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
89007-X87 SEE NOTE 10 LEAD FREE OPTION	E	7	7	7	7	7	7	7	7	7	7
	D	20	20	20	20	20	20	20	20	20	20
	C	8	8	8	8	8	8	8	8	8	8
	B	7	7	7	7	7	7	7	7	7	7
	A	7	7	7	7	7	7	7	7	7	7

B

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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
89007-X89 SEE NOTE 10 LEAD FREE OPTION	E	7	7	7	7	7	7	7	7	7	7
	D	7	7	7	7	7	7	7	7	7	7
	C	8	8	8	8	8	8	8	8	8	8
	B	17	17	17	17	17	17	17	17	17	17
	A	20	20	20	20	20	20	20	20	20	20
METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
89007-X90 SEE NOTE 10 LEAD FREE OPTION	E	10	10	10	10	10	10	10	10	10	10
	D	10	10	10	10	10	10	10	10	10	10
	C	11	11	11	11	11	11	11	11	11	11
	B	10	10	10	10	10	10	10	10	10	10
	A	10	10	10	10	10	10	10	10	10	10
METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
89007-X91 SEE NOTE 10 LEAD FREE OPTION	E	11	11	11	11	11	11	11	11	11	11
	D	21	21	21	21	21	21	21	21	21	21
	C	11	11	11	11	11	11	11	11	11	11
	B	21	21	21	21	21	21	21	21	21	21
	A	11	11	11	11	11	11	11	11	11	11
METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
89007-X92 SEE NOTE 10 LEAD FREE OPTION	E	21	21	21	21	21	21	21	21	21	21
	D	9	9	9	9	9	9	9	9	9	9
	C	9	9	9	9	9	9	9	9	9	9
	B	9	9	9	9	9	9	9	9	9	9
	A	21	21	21	21	21	21	21	21	21	21


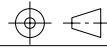
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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
89007-X93 SEE NOTE 10 LEAD FREE OPTION	E	12	12	12	12	12	12	12	12	12	12
	D	12	12	12	12	12	12	12	12	12	12
	C	12	12	12	12	12	12	12	12	12	12
	B	12	12	12	12	12	12	12	12	12	12
	A	15	15	15	15	15	15	15	15	15	15
METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
89007-X94 SEE NOTE 10 LEAD FREE OPTION	E	15	15	15	15	15	15	15	15	15	15
	D	12	12	12	12	12	12	12	12	12	12
	C	11	11	11	11	11	11	11	11	11	11
	B	12	12	12	12	12	12	12	12	12	12
	A	15	15	15	15	15	15	15	15	15	15
METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
89007-X95 SEE NOTE 10 LEAD FREE OPTION	E	11	11	11	11	11	11	11	11	11	11
	D	11	11	11	11	11	11	11	11	11	11
	C	10	10	10	10	10	10	10	10	10	10
	B	11	11	11	11	11	11	11	11	11	11
	A	11	11	11	11	11	11	11	11	11	11
METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
89007-X96 SEE NOTE 10 LEAD FREE OPTION	E	9	9	9	9	9	9	9	9	9	9
	D	9	9	9	9	9	9	9	9	9	9
	C	9	9	9	9	9	9	9	9	9	9
	B	9	9	9	9	9	9	9	9	9	9
	A	12	12	12	12	12	12	12	12	12	12

A

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mat'l code				--		tolerances unless otherwise specified		CUSTOMER		 www.fciconnect.com	
ltr	ecr no.	dr	date	linear	0.X ±0.3		projection		MM	scale	title METRAL SIGNAL HEADER 2 MOD, 5 ROW PRESS-FIT
T					0.XX ±0.13						
					.XXX ±.051						
				angles	0° ±2°						
				dr	T.BRUNGARD	11/19/99					
				engr	M.STRAWSER	11/19/99					
				chr	M.STRAWSER	11/19/99					
				appd	M.STRAWSER	02/29/00					
sheet	revision										
index	sheet										

Pro/E

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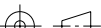

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METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
89007-X97 SEE NOTE 10 LEAD FREE OPTION	E	11	11	11	11	11	11	11	11	11	11
	D	21	21	21	21	21	21	21	21	21	21
	C	12	12	12	12	12	12	12	12	12	12
	B	11	11	11	11	11	11	11	11	11	11
	A	11	11	11	11	11	11	11	11	11	11
METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
89007-X98 SEE NOTE 10 LEAD FREE OPTION	E	15	15	15	15	15	15	15	15	15	15
	D	18	18	18	18	18	18	18	18	18	18
	C	10	10	10	10	10	10	10	10	10	10
	B	18	18	18	18	18	18	18	18	18	18
	A	15	15	15	15	15	15	15	15	15	15
METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
89007-X99 SEE NOTE 10 LEAD FREE OPTION	E	11	11	11	11	11	11	11	11	11	11
	D	11	11	11	11	11	11	11	11	11	11
	C	12	12	12	12	12	12	12	12	12	12
	B	18	18	18	18	18	18	18	18	18	18
	A	21	21	21	21	21	21	21	21	21	21

mat'l code				--		tolerances unless otherwise specified		CUSTOMER				www.fciconnect.com	
ltr	ecn no.	dr	date	linear	0.X ±0.3		COPY			title METRAL SIGNAL HEADER 2 MOD, 5 ROW PRESS-FIT			
T					0.XX ±0.13		projection						
					.XXX ±.051								
				angles	0° ±2°								
				dr	T.BRUNGARD	11/19/99			product family		METRAL	code	
				enrg	M.STRAWSER	11/19/99			size	dwg no	213		
				chr	M.STRAWSER	11/19/99			scale	A	89007		
				appd	M.STRAWSER	02/29/00							
sheet index		revision sheet											

cage code 22526

Pro/E

PDM: Rev:T

STATUS:Released

Printed: Nov 13, 2007



PRODUCT NUMBER
89007-XYX
89007-XYXLF

NOTES:

- FOR DIM A AND B SEE SHEET 2 AND UP.
- BODY MATERIAL: LIQUID CRYSTAL
POLYMER 30 % GLASS.
FLAME RETARDANT ACC. UL 94-V0.
- PIN MATERIAL:
PHOSPHOR BRONZE.
- PLATING ON PRESS-FIT TAIL:
89007-XYX IS SnPb
89007-XYXLF IS SN (LEAD FREE)
PLATING ON CONTACT AREA CONFORMS TO PERFORMANCE
LEVEL SHOWN IN TABLE.
- PRODUCT MARKING:
PART NUMBER DESIGNATION & BATCH I.D.
- ALL PRODUCTS WITH PART NUMBERS SHOWN IN
SUBSEQUENT TABLES WILL BE PACKAGED IN TUBES.
IF TRAY PACKAGING IS REQUIRED, A SUFFIX "P"
WILL BE ADDED TO THE END OF THE PART NUMBER.
EXAMPLE: XXXXX-XXXP OR XXXXX-XXXPLF
- PRODUCT SPECIFICATION GS-12-180
APPLICATION SPECIFICATION BUS-20-073

- AFTER INSERTION INTO CIRCUIT BOARD WITH
QUALIFIED TOOL.
- 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 EXCEPT THOSE WITH PART NUMBERS CONTAINING
(DRAWING NO.)-N1--- OR (DRAWING NO.)-N5---WILL WITHSTAND EXPOSURE
TO 260°C FOR 60 SECONDS IN A CONVECTION, INFRA-RED OR
VAPOR PHASE REFLOW OVEN. PART NUMBERS (DRAWING NO.)-N1---
AND (DRAWINGS NO.)-N5---WILL NOT WITHSTAND REFLOW AND Au CONTACT
SURFACE OF THE CONTACTS SHALL BE EXPOSED TO A MAXIMUM 140°C FOR
NO LONGER THAN 15 SECONDS IN A WAVE SOLDER APPLICATION.

- FOR LEAD FREE PART NUMBERS, ADD AN "LF" SUFFIX.
EXAMPLE: 89007-X01LF

- REFER TO 85832 FOR OTHER LOAD VARIATIONS.

PLATING IN CONTACT AREA		
DASH NUMBER	PERFORMANCE LEVEL	NOTES
-PYY	0.25 um GOLD MIN.	-
-NIYY	TELCORDIA CO (NXT)	-
-N5YY	TELCORDIA UE (NXT)	-
-IYY	TELCORDIA CO	-
-2YY	TELECOM CLASS	-
-3YY	IEC CLASS I	-
-5YY	TELCORDIA UE	-
-9YY	TELCORDIA CO	-
-NIYYLF	TELCORDIA CO (NXT) IEC CLASS I	SEE NOTE 9
-N5YYLF	TELCORDIA UE (NXT)	SEE NOTE 9
-IYYLF	TELCORDIA CO IEC CLASS I	SEE NOTE 9
-2YYLF	TELECOM CLASS	SEE NOTE 9
-5YYLF	TELCORDIA UE	SEE NOTE 9

mat'l code				tolerances unless otherwise specified		CUSTOMER		FCi		www.fciconnect.com	
ltr	ecn no.	dr	date	linear	0. X ±0.3	COPY			title METRAL SIGNAL HEADER 2 MOD, 5 ROW PRESS-FIT		
T					0. XX ±0.13						
					. XXX ±.051						
				angles	0° ±2°						
				dr	T.BRUNGARD	11/19/99		product family		METRAL	code
				enrg	M. STRAWSE	11/19/99		size	dwg no	213	
				chr	M. STRAWSE	11/19/99		89007		sheet	
				appd	M. STRAWSE	02/29/00	scale	A		11	
sheet index		revision sheet									