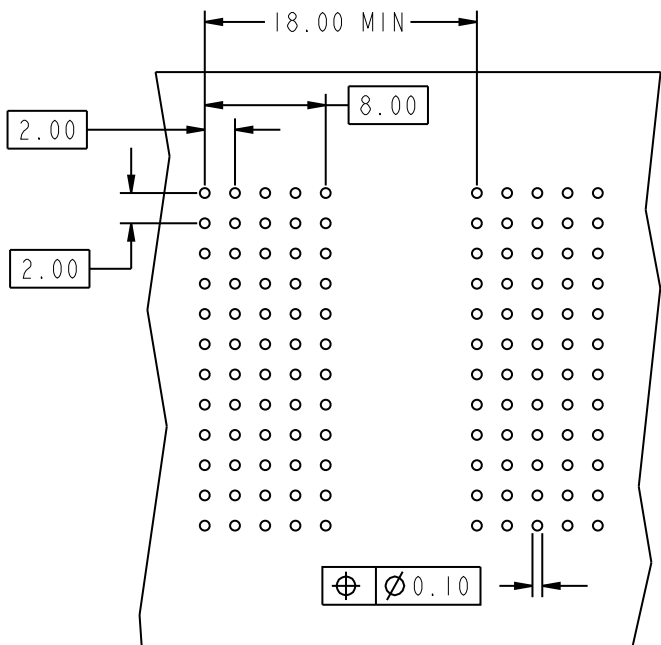


1 | 2

3 |

4



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

KEY		
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
19	8.00	4.30
20	8.00	13.60
21	8.00	17.00
25	5.75	15.60
33	7.25	12.90
36	5.75	14.40
49	5.75	15.10
64	5.75	14.90
67	7.25	16.30



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mat'l code				tolerances unless otherwise specified		CUSTOMER		FCJ		www.fcjconnect.com	
ltr	ecr no.	dr	date	linear	0.X ±0.3		COPY		title METRAL SIGNAL HEADER 2 MOD, 5 ROW PRESS-FIT		
CX					0.XX ±0.13		projection				
					.XXX ±.051						
				angles	0° ±2°				product family METRAL code 213		
				dr	T.BRUNGARD	11/19/99	MM				
				engr	M.STRAWSER	11/19/99			sheet 2		
				chr	M.STRAWSER	11/19/99	scale 1:1				A
				appd	M.STRAWSER	02/29/00			B		
sheet index	revision sheet										cage code 22526
									4		

1 | 2

Pro/E

3 |

cage code 22526

4



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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
85853-X01 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2
	D	6	6	6	6	6	6	6	6	6	6	6	6
	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	6	6	6	6	6	6	6	6	6	6	6	6

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X02 SEE NOTE 10 LEAD FREE OPTION	E	3	3	19	3	3	19	3	3	19	3	3	19
	D	3	19	3	3	19	3	3	19	3	3	19	3
	C	19	3	3	19	3	3	19	3	3	19	3	19
	B	3	3	19	3	3	19	3	3	19	3	3	19
	A	3	19	3	3	19	3	3	19	3	3	19	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X03 SEE NOTE 10 LEAD FREE OPTION	E	19	3	19	3	19	3	19	3	19	3	19	3
	D	3	19	3	19	3	19	3	19	3	19	3	19
	C	19	3	19	3	19	3	19	3	19	3	19	3
	B	3	19	3	19	3	19	3	19	3	19	3	19
	A	19	3	19	3	19	3	19	3	19	3	19	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X04 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	10	10	10	10	10	10	10	10	10	10	10	10
	A	2	2	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	11	12
85853-X05 SEE NOTE 10 LEAD FREE OPTION	E	7	6	5	5	5	5	5	5	5	5	5	5
	D	7	6	5	5	5	5	5	5	5	5	5	5
	C	7	6	5	5	5	5	5	5	5	5	5	5
	B	7	6	5	5	5	5	5	5	5	5	5	5
	A	7	6	5	5	5	5	5	5	5	5	5	5

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X06 SEE NOTE 10 LEAD FREE OPTION	E	25	25	25	25	25	25	25	25	25	25	25	25
	D	25	25	25	25	25	25	25	25	25	25	25	25
	C	25	25	25	25	25	25	25	25	25	25	25	25
	B	25	25	25	25	25	25	25	25	25	25	25	25
	A	2	2	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	11	12
85853-X07 SEE NOTE 10 LEAD FREE OPTION	E	33	7	7	7	7	7	7	7	7	7	7	7
	D	36	7	7	7	7	7	7	7	7	7	7	7
	C	33	7	7	7	7	7	7	7	7	7	7	7
	B	36	7	7	7	7	7	7	7	7	7	7	7
	A	33	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	12
85853-X08 SEE NOTE 10 LEAD FREE OPTION	E	4	1	1	1	19	1	1	1	1	19	1	1
	D	3	1	1	1	19	1	1	1	1	1	1	1
	C	3	1	1	1	19	1	1	1	1	19	1	1
	B	3	1	1	1	19	1	1	1	1	19	1	1
	A	3	1	1	1	19	1	1	1	1	19	1	1

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X09 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2
	D	2	2	2	2	2	2	2	2	2	2	2	2
	C	4	4	4	4	4	4	4	4	4	4	4	4
	B	1	2	2	2	2	2	2	1	2	2	2	2
	A	2	2	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	11	12
85853-X10 SEE NOTE 10 LEAD FREE OPTION	E	6	6	6	6	6	6	6	6	6	6	20	6
	D	6	6	6	6	6	6	6	6	6	6	20	6
	C	6	6	6	6	6	6	6	6	6	6	20	6
	B	6	6	6	6	6	6	6	6	6	6	20	6
	A	6	6	6	6	6	6	6	6	6	6	20	6

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X11 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	4	2	4	2	2	19	2
	D	2	2	2	2	2	4	2	4	2	2	19	2
	C	2	2	2	2	2	4	2	4	2	2	19	2
	B	2	2	2	2	2	4	2	4	2	2	19	2
	A	2	2	2	2	2	4	2	4	2	2	19	2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X12 SEE NOTE 10 LEAD FREE OPTION	E	8	8	8	6	6	6	6	6	6	6	6	6
	D	6	6	6	6	6	6	6	6	6	6	6	6
	C	20	20	20	6	6	6	6	6	6	6	6	6
	B	6	6	6	6	6	6	6	6	6	6	6	6
	A	8	8	8	6	6	6	6	6	6	6	6	6

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X13 SEE NOTE 10 LEAD FREE OPTION	E	4	4	4	2	2	2	2	2	2	2	2	2
	D	2	2	2	2	2	2	2	2	2	2	2	2
	C	19	19	19	2	2	2	2	2	2	2	2	2
	B	2	2	2	2	2	2	2	2	2	2	2	2
	A	4	4	4	2	2	2	2	2	2	2	2	2

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		FCJ		www.fcjconnect.com	
ltr	ecn no.	dr	date	linear	0.X ±0.3	COPY		projection		title	
CX					0.XX ±0.13					METRAL SIGNAL HEADER 2 MOD, 5 ROW PRESS-FIT	
				angles	.XXX ±.051					product family	
				dr	0° ±2°			MM		METRAL	
				engr	T.BRUNGARD 11/19/99					code	
				chr	M.STRAWSER 11/19/99			size		213	
				appd	M.STRAWSER 02/29/00			dwg no		sheet	
sheet	revision							A		3	
index	sheet							85853		3	



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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
85853-X14 SEE NOTE 10 LEAD FREE OPTION	E	1	4	1	1	1	1	1	1	1	1	1	1
	D	1	1	1	1	1	4	1	4	3	1	1	1
	C	1	1	1	4	1	1	1	4	3	3	1	1
	B	1	4	1	1	1	1	1	4	3	3	1	1
	A	1	1	1	1	1	4	1	4	1	4	3	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X15 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	4	1	1	1	4	1	1	1	1
	D	1	4	1	1	1	1	4	1	1	1	1	4
	C	1	1	1	1	4	1	1	1	1	4	1	1
	B	1	1	4	1	1	1	1	4	1	1	1	1
	A	1	1	1	1	1	4	1	1	1	1	1	4

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X16 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	1	1	3	3	1	3	1	1	1
	D	1	1	1	1	1	3	3	1	3	1	1	1
	C	1	1	1	1	1	1	1	1	1	1	1	1
	B	1	1	1	1	1	1	1	1	1	1	1	1
	A	4	4	4	4	4	4	4	4	4	4	4	4

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X17 SEE NOTE 10 LEAD FREE OPTION	E	1	4	1	1	1	1	1	1	1	1	1	1
	D	1	1	1	1	1	4	1	4	3	4	1	1
	C	1	1	1	4	1	1	1	4	3	3	1	1
	B	1	4	1	1	1	1	1	4	3	3	1	1
	A	1	1	1	1	1	4	1	4	3	4	3	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X18 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	4	1	1	1	4	1	1	1	1
	D	1	4	1	1	1	1	4	1	1	1	1	1
	C	1	1	1	1	4	1	1	1	1	4	1	1
	B	1	1	4	1	1	1	1	4	1	1	1	1
	A	4	4	1	1	1	4	1	1	1	1	1	4

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X19 SEE NOTE 10 LEAD FREE OPTION	E	25	25	25	25	25	25	25	25	25	25	25	25
	D	25	25	25	25	25	25	25	25	25	25	25	25
	C	25	25	25	25	25	25	25	25	25	25	25	25
	B	25	25	25	25	25	25	25	25	25	25	25	25
	A	25	25	25	25	25	25	25	25	25	25	25	25

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X20 SEE NOTE 10 LEAD FREE OPTION	E	3	2	2	2	2	2	3	2	2	2	2	2
	D	3	2	2	2	2	2	2	2	2	2	2	3
	C	3	2	2	2	4	4	4	2	2	2	2	2
	B	2	2	2	2	2	2	2	2	2	2	2	2
	A	2	2	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	11	12
85853-X21 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	19	2	2
	D	2	2	2	2	2	2	2	2	2	19	2	2
	C	2	2	2	2	2	2	2	2	2	19	2	2
	B	2	2	2	2	2	2	2	2	2	19	2	2
	A	2	2	2	2	2	4	2	4	2	19	2	2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X22 SEE NOTE 10 LEAD FREE OPTION	E	4	2	2	2	2	2	2	2	2	2	2	2
	D	2	2	2	2	2	2	2	2	2	2	2	2
	C	19	19	19	2	2	19	2	2	2	2	2	2
	B	2	2	2	2	2	4	2	2	2	2	2	2
	A	4	2	2	2	2	4	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	11	12
85853-X23 SEE NOTE 10 LEAD FREE OPTION	E	49	49	49	49	49	49	49	49	49	49	49	49
	D	49	49	49	49	49	49	49	49	49	49	49	49
	C	49	49	49	49	49	49	49	49	49	49	49	49
	B	49	49	49	49	49	49	49	49	49	49	49	49
	A	49	49	49	49	49	49	49	49	49	49	49	49

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X24 SEE NOTE 10 LEAD FREE OPTION	E	6	6	6	6	6	6	6	6	6	20	6	6
	D	6	6	6	6	6	6	6	6	6	20	6	6
	C	6	6	6	6	6	6	6	6	6	20	6	6
	B	6	6	6	6	6	6	6	6	6	20	6	6
	A	6	6	6	6	6	8	6	8	6	20	6	6

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X25 SEE NOTE 10 LEAD FREE OPTION	E	8	6	6	6	6	6	6	6	6	6	6	6
	D	6	6	6	6	6	6	6	6	6	6	6	6
	C	20	20	20	6	6	20	6	6	6	6	6	6
	B	6	6	6	6	6	8	6	6	6	6	6	6
	A	8	6	6	6	6	8	6	6	6	6	6	6

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X26 SEE NOTE 10 LEAD FREE OPTION	E	1	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	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
	A	3	3	3	3	3	3	3	3	3	3	3	3

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		 www.fcjconnect.com	
ltr	ecr no.	dr	date	linear	0.X ±0.3	COPY		title	
CX				linear	0.XX ±0.13	projection		METRAL SIGNAL HEADER	
				angles	.XXX ±.051			2 MOD, 5 ROW PRESS-FIT	
				dr	0° ±2°			product family	
				engr	T.BRUNGARD 11/19/99	MM		METRAL	
				chr	M.STRAWSER 11/19/99			code	
				appd	M.STRAWSER 02/29/00	1:1		213	
sheet	revision					size		sheet	
index	sheet					A		4	
						85853			



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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
85853-X27 SEE NOTE 10 LEAD FREE OPTION	E	5	7	7	7	7	7	7	7	7	7	7	7
	D	7	7	7	7	7	7	7	7	7	7	7	7
	C	7	7	7	7	7	7	7	7	7	7	7	7
	B	7	7	7	7	7	7	7	7	7	7	7	7
	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	12
85853-X28 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	-	2	-	2	-	-
	D	2	2	2	2	2	2	-	-	-	-	-	-
	C	2	2	2	2	2	2	2	2	-	2	-	-
	B	2	2	2	2	2	2	-	-	-	-	-	-
	A	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	11	12
85853-X29 SEE NOTE 10 LEAD FREE OPTION	E	2	-	2	-	2	-	2	-	2	-	2	-
	D	-	-	-	-	-	-	-	-	-	-	-	-
	C	2	-	2	-	2	-	2	-	2	-	2	-
	B	-	-	-	-	-	-	-	-	-	-	-	-
	A	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	11	12	
85853-X30 SEE NOTE 10 LEAD FREE OPTION	E	2	-	2	-	2	-	3	3	19	19	3	4	
	D	-	-	-	-	-	-	3	3	19	19	3	4	
	C	2	-	2	-	2	-	3	3	19	19	3	4	
	B	-	-	-	-	-	-	-	3	3	19	19	3	4
	A	2	-	2	-	2	-	3	3	19	19	3	4	

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X31 SEE NOTE 10 LEAD FREE OPTION	E	2	-	2	-	2	-	4	2	2	2	2	2
	D	-	-	-	-	-	-	4	2	2	2	2	2
	C	2	-	2	-	2	-	4	2	2	2	2	2
	B	-	-	-	-	-	-	-	4	2	2	2	2
	A	2	-	2	-	2	-	4	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	11	12
85853-X32 SEE NOTE 10 LEAD FREE OPTION	E	20	7	7	7	7	7	20	7	7	7	6	5
	D	20	7	7	7	7	7	20	7	7	7	6	5
	C	20	7	7	7	7	7	20	7	7	7	6	5
	B	20	7	7	7	7	7	20	7	7	7	6	5
	A	20	7	7	7	7	7	20	7	7	7	6	5

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X33 SEE NOTE 10 LEAD FREE OPTION	E	20	7	7	7	7	7	20	7	7	7	7	7
	D	20	7	7	7	7	7	20	7	7	7	7	7
	C	20	7	7	7	7	7	20	7	7	7	7	7
	B	20	7	7	7	7	7	20	7	7	7	7	7
	A	20	7	7	7	7	7	20	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	12
85853-X34 SEE NOTE 10 LEAD FREE OPTION	E	2	-	2	-	2	-	2	2	2	2	2	2
	D	-	-	-	-	-	-	2	2	2	2	2	2
	C	2	-	2	-	2	-	2	2	2	2	2	2
	B	-	-	-	-	-	-	-	2	2	2	2	2
	A	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	11	12
85853-X35 SEE NOTE 10 LEAD FREE OPTION	E	19	3	3	3	3	3	19	3	3	3	2	1
	D	19	3	3	3	3	3	19	3	3	3	2	1
	C	19	3	3	3	3	3	19	3	3	3	2	1
	B	19	3	3	3	3	3	19	3	3	3	2	1
	A	19	3	3	3	3	3	19	3	3	3	2	1

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X36 SEE NOTE 10 LEAD FREE OPTION	E	19	3	3	3	3	3	19	3	3	3	3	3
	D	19	3	3	3	3	3	19	3	3	3	3	3
	C	19	3	3	3	3	3	19	3	3	3	3	3
	B	19	3	3	3	3	3	19	3	3	3	3	3
	A	19	3	3	3	3	3	19	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
85853-X37 SEE NOTE 10 LEAD FREE OPTION	E	-	-	-	-	-	-	-	-	-	-	-	-
	D	-	-	-	-	-	-	-	-	-	-	-	-
	C	-	-	-	-	-	-	-	-	-	-	-	-
	B	-	-	-	-	-	-	-	-	-	-	-	-
	A	-	-	-	-	-	-	-	-	-	-	-	-

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X38 SEE NOTE 10 LEAD FREE OPTION	E	19	19	19	19	-	19	-	19	-	19	-	19
	D	19	19	19	19	-	19	-	19	-	19	-	19
	C	19	19	19	19	-	19	-	19	-	19	-	19
	B	19	19	19	19	-	19	-	19	-	19	-	19
	A	19	19	19	19	-	19	-	19	-	19	-	19

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X39 SEE NOTE 10 LEAD FREE OPTION	E	3	3	7	3	3	7	7	7	7	7	7	7
	D	3	3	7	3	3	7	7	7	7	7	7	7
	C	3	7	7	3	7	7	7	7	7	7	7	7
	B	3	3	3	3	3	7	7	7	7	7	7	7
	A	3	3	3	3	3	3	3	3	3	3	3	3

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		FCI		www.fciconnect.com	
ltr	ecr no.	dr	date	linear	0.X ±0.3	COPY		projection		title	
CX				angles	0.XX ±0.13	MM				METRAL SIGNAL HEADER 2 MOD, 5 ROW PRESS-FIT	
				dr	.XXX ±.051	scale		product family		code	
				enrg	0° ±2°	1:1		METRAL		213	
				chr		A		size		sheet	
				appd				85853		5	
sheet	revision							cage code		4	
index	sheet							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
85853-X53 SEE NOTE 10 LEAD FREE OPTION	E	-	1	1	-	-	-	-	-	-	-	1	1
	D	-	1	1	-	-	-	-	-	-	-	1	1
	C	-	-	-	-	-	-	-	-	-	-	-	-
	B	-	1	1	-	-	1	-	1	1	-	1	1
	A	-	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
85853-X54 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	1	-	1	-	1	-	-	1	-
	D	1	1	1	1	-	1	-	1	-	-	1	-
	C	1	1	1	1	-	1	-	1	-	-	1	-
	B	1	1	1	1	-	1	-	1	-	-	1	-
	A	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
85853-X55 SEE NOTE 10 LEAD FREE OPTION	E	2	19	19	19	19	19	19	19	19	19	19	19
	D	2	19	19	19	19	19	19	19	19	19	19	19
	C	2	19	19	19	19	19	19	19	19	19	19	19
	B	2	19	19	19	19	19	19	19	19	19	19	19
	A	2	19	19	19	19	19	19	19	19	19	19	19

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X56 SEE NOTE 10 LEAD FREE OPTION	E	19	19	19	19	-	19	-	19	-	-	19	-
	D	19	19	19	19	-	19	-	19	-	-	19	-
	C	19	19	19	19	-	19	-	19	-	-	19	-
	B	19	19	19	19	-	19	-	19	-	-	19	-
	A	19	19	19	19	-	19	-	19	-	-	19	-

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X57 SEE NOTE 10 LEAD FREE OPTION	E	-	19	-	-	19	-	19	-	19	19	19	19
	D	-	19	-	-	19	-	19	-	19	19	19	19
	C	-	19	-	-	19	-	19	-	19	19	19	19
	B	-	19	-	-	19	-	19	-	19	19	19	19
	A	-	19	-	-	19	-	19	-	19	19	19	19

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X58 SEE NOTE 10 LEAD FREE OPTION	E	-	1	1	-	-	-	-	-	-	-	1	1
	D	-	1	1	-	-	-	-	-	-	-	1	1
	C	-	-	-	-	-	-	-	-	-	-	-	-
	B	-	1	1	-	1	-	1	1	-	1	1	1
	A	2	2	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	11	12
85853-X59 SEE NOTE 10 LEAD FREE OPTION	E	3	-	3	3	3	3	3	3	3	3	3	3
	D	3	-	3	3	3	3	3	3	3	3	3	3
	C	-	-	3	3	3	3	3	3	3	3	3	3
	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
85853-X60 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	19	-	19	-	2	-	2	-	19
	D	2	2	2	19	-	19	-	2	-	2	-	19
	C	2	2	2	19	-	19	-	2	-	2	-	19
	B	2	2	2	19	-	19	-	2	-	2	-	19
	A	2	2	2	19	-	19	-	2	-	2	-	19

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X61 SEE NOTE 10 LEAD FREE OPTION	E	19	2	2	2	2	2	2	2	2	2	2	2
	D	19	2	2	2	2	2	2	2	2	2	2	2
	C	19	2	2	2	2	2	2	2	2	2	2	2
	B	19	2	2	2	2	2	2	2	2	2	2	2
	A	19	2	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	11	12
85853-X62 SEE NOTE 10 LEAD FREE OPTION	E	6	6	6	20	-	20	-	6	-	6	-	20
	D	6	6	6	20	-	20	-	6	-	6	-	20
	C	6	6	6	20	-	20	-	6	-	6	-	20
	B	6	6	6	20	-	20	-	6	-	6	-	20
	A	6	6	6	20	-	20	-	6	-	6	-	20

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X63 SEE NOTE 10 LEAD FREE OPTION	E	20	6	6	6	6	6	6	6	6	6	6	6
	D	20	6	6	6	6	6	6	6	6	6	6	6
	C	20	6	6	6	6	6	6	6	6	6	6	6
	B	20	6	6	6	6	6	6	6	6	6	6	6
	A	20	6	6	6	6	6	6	6	6	6	6	6

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X64 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2
	D	2	2	2	2	2	2	2	2	2	2	2	2
	C	2	2	2	2	2	2	2	2	2	2	2	2
	B	2	-	-	-	2	2	-	-	-	-	2	-
	A	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	11	12
85853-X65 SEE NOTE 10 LEAD FREE OPTION	E	5	5	6	5	5	5	5	5	6	5	5	5
	D	5	5	6	5	5	5	5	5	6	5	5	5
	C	5	5	6	5	5	5	5	5	6	5	5	5
	B	5	5	6	5	5	5	5	5	6	5	5	5
	A	5	5	6	5	5	5	5	5	6	5	5	5

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		FCI		www.fciconnect.com	
ltr	ecr no.	dr	date	linear	0.X ±0.3	COPY		projection		title	
CX				angles	0.XX ±0.13	MM				METRAL SIGNAL HEADER 2 MOD, 5 ROW PRESS-FIT	
				dr	.XXX ±.051	scale		product family		code	
				engr	0° ±2°	1:1		METRAL		213	
				chr	T.BRUNGARD 11/19/99	A		size		sheet	
				appd	M.STRAWSER 11/19/99			85853		7	
					M.STRAWSER 02/29/00						
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	11	12
85853-X66 SEE NOTE 10 LEAD FREE OPTION	E	5	5	6	5	5	5	5	5	6	5	5	6
	D	5	5	6	5	5	5	5	5	6	5	5	6
	C	5	5	6	5	5	5	5	5	6	5	5	6
	B	5	5	6	5	5	5	5	5	6	5	5	6
	A	5	5	6	5	5	5	5	5	6	5	5	6

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X67 SEE NOTE 10 LEAD FREE OPTION	E	6	6	6	6	6	6	6	6	6	5	6	6
	D	6	6	6	6	6	6	6	6	6	6	6	6
	C	6	6	6	6	6	6	6	6	6	20	20	20
	B	6	6	6	6	6	6	6	6	6	20	6	6
	A	6	6	6	6	6	6	6	6	6	20	6	6

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X68 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2
	D	2	2	2	2	2	2	2	2	2	3	3	2
	C	2	2	2	2	2	2	2	2	3	3	2	2
	B	2	2	2	2	2	2	2	2	3	3	2	2
	A	2	2	2	2	2	2	2	2	3	3	2	2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X69 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	4	2	2	2	2	2	2	2
	D	2	2	2	2	4	2	2	2	2	2	2	2
	C	2	2	2	2	4	4	4	4	4	2	2	2
	B	2	2	2	2	2	2	2	2	2	2	2	2
	A	2	2	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	11	12
85853-X70 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	4	2	2	2	2	2	2
	D	2	2	2	2	2	4	2	2	2	2	2	2
	C	2	2	2	2	2	4	2	2	2	2	2	2
	B	2	2	2	2	2	4	2	2	2	2	2	2
	A	2	2	2	2	2	4	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	11	12
85853-X71 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	3	2	2	2	2	2
	D	2	2	2	2	2	2	3	2	2	2	2	2
	C	2	2	2	2	2	2	3	2	2	2	2	2
	B	-	-	-	-	-	2	2	3	2	2	2	2
	A	2	2	2	2	2	2	3	2	2	2	1	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X72 SEE NOTE 10 LEAD FREE OPTION	E	1	4	4	4	4	19	4	2	19	19	19	2
	D	1	4	4	4	4	19	4	2	19	19	19	2
	C	19	4	4	4	4	19	4	2	19	19	19	2
	B	3	4	4	4	4	19	4	2	19	19	19	2
	A	3	4	4	4	4	19	4	2	19	19	19	2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X73 SEE NOTE 10 LEAD FREE OPTION	E	5	5	6	5	5	5	5	6	5	5	5	5
	D	5	5	6	5	5	5	5	6	5	5	5	5
	C	1	1	6	1	5	5	5	6	5	5	5	5
	B	5	5	6	5	5	5	5	6	5	5	5	5
	A	5	5	6	5	5	5	5	6	5	5	5	5

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X74 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	3	3	2	2
	D	2	2	2	2	2	2	2	2	3	3	2	2
	C	2	2	2	2	2	2	2	2	3	3	2	2
	B	2	2	2	2	2	2	2	2	3	3	2	2
	A	2	2	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	11	12
85853-X75 SEE NOTE 10 LEAD FREE OPTION	E	6	6	6	6	6	6	6	6	6	6	6	6
	D	6	6	6	6	6	6	6	6	6	6	6	6
	C	6	8	6	8	8	6	8	8	8	6	8	6
	B	6	6	6	6	8	6	6	6	6	6	6	6
	A	6	6	6	6	8	6	6	6	6	6	6	6

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X76 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	1	1	3	1	1	1	1	1	1
	D	1	1	1	1	1	3	1	1	1	1	1	1
	C	1	1	1	1	1	3	1	1	1	1	1	1
	B	1	1	1	1	1	3	1	1	1	1	1	1
	A	1	1	1	1	1	3	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
85853-X77 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2
	D	2	2	2	2	2	2	2	2	2	2	2	2
	C	1	2	2	2	2	1	2	2	2	2	2	2
	B	2	2	2	2	2	2	2	2	2	2	2	2
	A	2	2	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	11	12
85853-X78 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2
	D	2	2	2	2	2	2	2	2	2	2	2	2
	C	1	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	2	2	2	2	2	2	2	2	2	2	2	2

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		FCJ		www.fcjconnect.com	
ltr	ecr no.	dr	date	linear	0.X ±0.3	COPY		projection		title	
CX				angles	0.XX ±0.13	MM				METRAL SIGNAL HEADER 2 MOD, 5 ROW PRESS-FIT	
				dr	.XXX ±.051	T.BRUNGARD 11/19/99		product family		METRAL code	
				engr	0° ±2°	M.STRAWSER 11/19/99		size		213	
				chr		M.STRAWSER 11/19/99		dwg no		85853	
				appd		M.STRAWSER 02/29/00		A		sheet	
sheet	revision							scale		8	
index	sheet							1:1			



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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
85853-X79 SEE NOTE 10 LEAD FREE OPTION	E	5	5	5	5	5	7	5	5	5	5	5	5
	D	5	5	5	5	5	7	5	5	5	5	5	5
	C	5	5	5	5	5	7	5	5	5	5	5	5
	B	5	5	5	5	5	7	5	5	5	5	5	5
	A	5	5	5	5	5	7	5	5	5	5	5	5

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X80 SEE NOTE 10 LEAD FREE OPTION	E	5	5	5	5	5	6	5	5	5	5	5	5
	D	5	5	5	5	5	6	5	5	5	5	5	5
	C	5	6	5	6	6	6	5	5	6	6	6	6
	B	6	6	6	6	6	6	6	6	6	6	6	6
	A	6	6	6	6	6	6	6	6	6	6	6	6

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X81 SEE NOTE 10 LEAD FREE OPTION	E	6	6	6	6	6	6	6	6	6	6	6	6
	D	6	6	6	6	6	6	6	6	6	6	6	6
	C	6	5	6	6	5	6	6	5	6	6	5	5
	B	5	5	5	5	5	6	5	5	5	5	5	6
	A	5	5	5	5	5	6	5	5	5	5	5	6

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X82 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	1	1	1	1	1	1	1	1	-
	D	1	1	1	1	1	1	1	1	1	1	1	-
	C	1	1	1	1	1	1	1	1	1	1	1	-
	B	1	1	1	1	1	1	1	1	1	1	1	-
	A	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
85853-X83 SEE NOTE 10 LEAD FREE OPTION	E	2	-	2	-	2	-	2	-	2	-	2	-
	D	2	-	-	-	2	-	-	-	-	2	-	-
	C	2	-	2	-	2	-	2	-	2	-	2	-
	B	-	2	-	-	-	2	-	-	-	2	-	4
	A	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	11	12
85853-X84 SEE NOTE 10 LEAD FREE OPTION	E	-	-	4	4	4	4	4	4	4	4	-	-
	D	-	-	4	4	4	4	4	2	2	4	-	-
	C	-	-	4	2	2	4	4	4	4	4	-	-
	B	-	-	4	4	4	4	4	2	2	4	-	-
	A	-	-	4	4	4	4	4	4	4	4	-	-

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X85 SEE NOTE 10 LEAD FREE OPTION	E	2	-	2	-	2	-	2	-	2	-	2	-
	D	-	-	-	-	-	-	-	2	2	2	2	-
	C	2	2	2	-	2	2	-	2	2	2	2	-
	B	2	2	2	-	2	2	-	2	2	2	2	-
	A	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	11	12
85853-X86 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	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
	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
85853-X87 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	1	1	1	1	1	1	-	1	1
	D	1	1	1	1	1	1	1	1	1	-	1	1
	C	1	1	1	1	1	1	1	1	1	-	1	1
	B	1	1	1	1	1	1	1	1	1	-	-	-
	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
85853-X88 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	1	1	1	1	1	1	1	1	1
	D	1	1	1	1	1	1	1	1	1	1	1	1
	C	1	1	1	1	1	1	1	1	1	1	1	1
	B	3	3	3	3	3	3	3	3	3	3	3	3
	A	19	19	19	19	19	19	19	19	19	19	19	19

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X89 SEE NOTE 10 LEAD FREE OPTION	E	19	19	19	19	19	19	19	19	19	19	19	3
	D	3	3	3	3	3	3	3	3	3	3	3	3
	C	1	1	1	1	1	1	1	1	1	1	1	1
	B	1	1	1	1	1	1	1	1	1	1	1	1
	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
85853-X90 SEE NOTE 10 LEAD FREE OPTION	E	3	-	3	3	3	3	3	3	3	3	3	3
	D	3	-	3	3	3	3	3	3	3	3	3	3
	C	-	-	3	3	3	3	3	3	3	3	3	3
	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
85853-X91 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	1	3	3	3	3	3	3	3	3	3	3	1
	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

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		FCJ		www.fcjconnect.com	
ltr	ecr no.	dr	date	linear	0.X ±0.3	COPY		projection		title	
CX				angles	0.XX ±0.13	MM				METRAL SIGNAL HEADER 2 MOD, 5 ROW PRESS-FIT	
				dr	.XXX ±.051	MM		product family		code	
				engr	0° ±2°	MM		METRAL		213	
				chr		MM		size		sheet	
				appd		MM		dwg no		9	
sheet	revision					scale		A		85853	
index	sheet					1:1					



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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
85853-X92 SEE NOTE 10 LEAD FREE OPTION	E	-	5	5	-	5	5	-	5	5	-	5	5
	D	-	5	5	-	5	5	-	5	5	-	5	5
	C	-	5	5	-	5	5	-	5	5	-	5	5
	B	-	5	5	-	5	5	-	5	5	-	5	5
	A	-	5	5	-	5	5	-	5	5	-	5	5
85853-X93 SEE NOTE 10 LEAD FREE OPTION	E	8	6	6	6	6	6	6	6	6	6	6	6
	D	8	6	6	6	6	6	6	6	6	6	6	6
	C	8	6	6	6	6	6	6	6	6	6	6	6
	B	8	6	6	6	6	6	6	6	6	6	6	6
	A	8	6	6	6	6	6	6	6	6	6	6	6
85853-X94 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	4
	D	2	2	2	2	2	2	2	2	2	2	2	4
	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	2	2	2	2	2	2	2	2	2	2	2	4
85853-X95 SEE NOTE 10 LEAD FREE OPTION	E	-	1	1	-	1	1	-	1	1	-	1	1
	D	-	1	1	-	1	1	-	1	1	-	1	1
	C	-	1	1	-	1	1	-	1	1	-	1	1
	B	-	1	1	-	1	1	-	1	1	-	1	1
	A	-	1	1	-	1	1	-	1	1	-	1	1
85853-X96 SEE NOTE 10 LEAD FREE OPTION	E	2	-	2	-	2	-	2	-	2	-	2	-
	D	2	-	2	-	2	-	2	-	2	-	2	-
	C	2	-	2	-	2	-	2	-	2	-	2	-
	B	2	-	2	-	2	-	2	-	2	-	2	-
	A	2	-	2	-	2	-	2	-	2	-	2	-

1 | 2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X97 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2
	D	2	2	2	2	2	2	2	2	2	2	2	2
	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	1	2	2	2	2	2	2	2	2	2	2	1
85853-X98 SEE NOTE 10 LEAD FREE OPTION	E	19	1	2	2	1	2	2	2	2	2	2	19
	D	1	2	2	2	2	2	2	2	2	2	2	19
	C	2	2	2	2	2	2	2	2	2	2	2	19
	B	2	2	2	2	2	2	2	2	2	2	2	19
	A	2	1	2	2	2	2	2	2	2	2	2	19
85853-X99 SEE NOTE 10 LEAD FREE OPTION	E	2	1	2	2	1	2	2	2	2	2	2	19
	D	2	2	2	2	2	2	2	2	2	2	2	19
	C	2	2	2	2	2	2	2	2	2	2	2	19
	B	2	2	2	2	2	2	2	2	2	2	2	19
	A	2	1	2	2	2	2	2	2	2	2	2	19
85853-X100 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	1	1	1	1	2	2	2	2
	D	2	2	2	2	2	2	2	2	2	2	2	2
	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	2	2	2	2	2	2	2	2	2	2	2	2

3 |

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X101 SEE NOTE 10 LEAD FREE OPTION	E	6	6	6	8	20	6	6	6	6	6	6	6
	D	6	6	6	6	6	6	6	6	6	6	6	6
	C	20	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	6	6	6	6	6	6	6	6	6	6	6	6
85853-X102 SEE NOTE 10 LEAD FREE OPTION	E	4	4	3	4	3	4	4	4	3	4	3	4
	D	4	4	3	4	3	4	4	4	3	4	3	4
	C	4	4	4	4	4	4	4	4	4	4	4	4
	B	4	4	2	4	2	4	4	4	2	4	2	4
	A	4	4	2	4	2	4	4	4	2	4	2	4
85853-X103 SEE NOTE 10 LEAD FREE OPTION	E	3	3	3	4	3	4	3	4	3	3	3	3
	D	3	3	3	4	3	4	3	4	3	3	3	3
	C	3	3	3	4	2	4	2	4	3	3	3	3
	B	3	3	3	4	2	4	2	4	3	3	3	3
	A	3	3	3	4	2	4	2	4	3	3	3	3
85853-X104 SEE NOTE 10 LEAD FREE OPTION	E	3	3	3	3	3	2	3	3	3	3	3	3
	D	3	3	3	3	3	2	3	3	3	3	3	3
	C	3	3	3	3	3	2	3	3	3	3	3	3
	B	3	3	3	3	3	2	3	3	3	3	3	3
	A	3	3	3	3	3	2	3	3	3	3	3	3

4

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		 www.fcjconnect.com	
ltr	ecr no.	dr	date	linear	0.X ±0.3	COPY		title	
CX				angles	0.XX ±0.13	projection		METRAL SIGNAL HEADER	
				dr	.XXX ±.051			2 MOD, 5 ROW PRESS-FIT	
				engr	0° ±2°			product family	
				chr	T.BRUNGARD 11/19/99	MM		METRAL	
				appd	M.STRAWSER 11/19/99			code	
					M.STRAWSER 02/29/00	size		213	
sheet	revision					A		85853	
index	sheet					scale		10	
						1:1			
						cage code		22526	
								4	

A

B

1 | 2

Pro/E

3 |

cage code 22526

4



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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
85853-X105 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	3	3	3	3	3	3	3	3	3
	D	2	2	2	3	3	3	3	3	3	3	3	3
	C	2	2	2	3	3	3	3	3	3	3	3	3
	B	2	2	2	3	3	3	3	3	3	3	3	3
	A	2	2	2	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
85853-X106 SEE NOTE 10 LEAD FREE OPTION	E	3	7	7	7	7	7	8	7	8	7	7	3
	D	3	7	7	7	7	7	8	7	8	7	7	3
	C	3	7	7	7	7	7	8	7	8	7	7	3
	B	3	7	7	7	7	7	8	7	8	7	7	3
	A	3	7	7	7	7	7	8	7	8	7	7	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X107 SEE NOTE 10 LEAD FREE OPTION	E	3	8	7	7	7	7	7	7	7	7	7	7
	D	3	8	7	7	7	7	7	7	7	7	7	7
	C	3	8	7	7	7	7	7	7	7	7	7	7
	B	3	8	7	7	7	7	7	7	7	7	7	7
	A	3	8	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	12
85853-X108 SEE NOTE 10 LEAD FREE OPTION	E	7	8	7	8	7	8	7	8	7	8	5	7
	D	7	8	7	8	7	8	7	8	7	8	5	7
	C	8	8	8	8	8	8	8	8	8	8	5	7
	B	6	8	6	8	6	8	6	8	6	8	5	7
	A	6	8	6	8	6	8	6	8	6	8	5	7

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X109 SEE NOTE 10 LEAD FREE OPTION	E	1	9	1	2	2	1	2	2	2	2	2	1
	D	1	2	2	2	2	2	2	2	2	2	2	1
	C	2	2	2	2	2	2	2	2	2	2	2	1
	B	1	9	2	2	2	2	2	2	2	2	2	1
	A	1	1	2	2	2	2	2	2	2	2	2	1

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X110 SEE NOTE 10 LEAD FREE OPTION	E	-	2	-	2	-	2	-	2	-	2	-	2
	D	2	-	2	-	2	-	2	-	2	-	2	-
	C	-	2	-	2	-	2	-	2	-	2	-	2
	B	2	-	2	-	2	-	2	-	2	-	2	-
	A	-	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	11	12
85853-X111 SEE NOTE 10 LEAD FREE OPTION	E	5	5	6	5	5	5	5	5	5	5	5	5
	D	5	5	6	5	5	5	6	6	6	6	6	6
	C	6	6	6	5	5	5	6	6	6	6	6	6
	B	5	5	5	5	5	5	6	6	6	6	6	6
	A	6	6	6	6	6	6	5	5	5	5	5	5

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X112 SEE NOTE 10 LEAD FREE OPTION	E	1	1	1	1	1	2	1	1	1	1	1	1
	D	1	1	1	1	2	1	1	1	1	1	1	1
	C	1	1	2	1	1	1	1	1	1	1	1	1
	B	1	1	1	1	1	2	1	1	1	1	1	1
	A	1	1	1	1	1	1	2	2	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
85853-X113 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2
	D	4	2	2	4	2	4	3	3	4	3	3	3
	C	2	2	4	2	2	4	3	3	4	3	3	3
	B	2	4	2	2	4	3	3	4	3	3	3	3
	A	2	2	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	11	12
85853-X114 SEE NOTE 10 LEAD FREE OPTION	E	3	3	3	3	3	3	3	4	3	3	3	3
	D	3	3	3	3	3	3	3	4	3	3	3	3
	C	3	3	3	3	3	3	3	4	3	3	3	3
	B	3	3	3	3	3	3	3	4	3	3	3	3
	A	3	3	3	3	3	3	3	4	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
85853-X115 SEE NOTE 10 LEAD FREE OPTION	E	2	2	1	2	2	2	2	2	2	2	2	2
	D	2	2	2	2	2	2	2	2	2	2	2	2
	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	2	2	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	11	12
85853-X116 SEE NOTE 10 LEAD FREE OPTION	E	6	6	7	7	6	6	6	7	7	6	8	8
	D	6	6	7	7	6	6	6	7	7	6	8	8
	C	6	6	7	7	6	6	6	7	7	6	8	8
	B	6	6	7	7	6	6	6	7	7	6	8	8
	A	6	6	7	7	6	6	6	7	7	6	8	8

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X117 SEE NOTE 10 LEAD FREE OPTION	E	64	-	64	-	64	-	64	-	64	-	64	-
	D	-	64	-	64	-	64	-	64	-	64	-	64
	C	64	-	64	-	64	-	64	-	64	-	64	-
	B	-	64	-	64	-	64	-	64	-	64	-	64
	A	64	-	64	-	64	-	64	-	64	-	64	-

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		FCI		www.fciconnect.com	
ltr	ecr no.	dr	date	linear	0.X ±0.3	COPY		projection		title	
CX				angles	0.XX ±0.13	MM				METRAL SIGNAL HEADER	
				dr	.XXX ±.051	scale		product family		code	
				enrg	0° ±2°	1:1		METRAL		213	
				chr				size		sheet	
				appd				dwg no		11	
sheet	revision							85853			
index	sheet							A			



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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
85853-X118 SEE NOTE 10 LEAD FREE OPTION	E	6	-	6	-	6	-	6	-	6	-	6	-
	D	-	6	-	6	-	6	-	6	-	6	-	6
	C	6	-	6	-	6	-	6	-	6	-	6	-
	B	-	6	-	6	-	6	-	6	-	6	-	6
	A	6	-	6	-	6	-	6	-	6	-	6	-

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X119 SEE NOTE 10 LEAD FREE OPTION	E	4	2	2	2	2	2	2	2	2	2	2	2
	D	2	2	4	4	2	2	2	2	2	2	2	2
	C	19	2	19	2	2	19	2	2	2	2	2	2
	B	2	2	2	4	2	4	2	2	2	2	2	2
	A	4	2	2	2	2	4	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	11	12
85853-X120 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	19	2	
	D	2	2	2	2	2	2	2	2	2	19	2	
	C	2	2	2	2	2	2	2	2	2	19	2	
	B	2	2	2	2	2	2	2	2	2	19	2	
	A	2	2	4	4	2	4	2	4	2	4	19	4

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X121 SEE NOTE 10 LEAD FREE OPTION	E	6	6	6	6	6	6	6	6	6	8	5	
	D	6	6	6	6	6	6	6	6	6	6	6	6
	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	6	6	6	6	6	6	6	6	6	6	6	6

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X122 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	3	4	4
	D	2	2	2	2	2	2	2	2	2	4	4	4
	C	2	2	2	2	2	2	2	2	4	4	2	2
	B	2	2	2	2	2	2	2	2	2	2	2	4
	A	2	2	2	2	2	2	2	1	2	4	4	

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X123 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	4	1	
	D	2	2	2	2	2	2	2	2	2	2	2	2
	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	2	2	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	11	12
85853-X124 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	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
	A	3	3	3	3	3	3	3	3	3	3	1	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X125 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	19	19	19	3	3	3	3	3	3	3	3	3
	B	3	3	3	3	3	3	3	3	3	3	3	3
	A	3	3	3	3	3	3	3	3	3	3	1	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X126 SEE NOTE 10 LEAD FREE OPTION	E	2	6	6	6	6	6	2	2	2	2	2	2
	D	2	6	6	6	6	6	2	2	2	2	2	2
	C	2	6	6	6	6	6	2	2	2	2	2	2
	B	2	6	6	6	21	6	2	2	2	2	2	2
	A	2	6	6	6	6	6	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	11	12
85853-X127 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2
	D	2	2	2	2	2	2	2	2	2	2	2	2
	C	2	2	2	2	2	2	2	2	2	2	2	2
	B	2	2	2	2	19	2	2	2	2	2	2	2
	A	2	2	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	11	12
85853-X128 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	3	19	19
	D	2	2	2	2	2	2	2	2	2	2	19	19
	C	2	2	2	2	2	2	2	19	19	2	2	2
	B	2	2	2	2	2	2	2	2	2	2	19	19
	A	2	2	2	2	2	2	2	2	1	2	19	19

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X129 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	3	1
	D	2	2	2	2	2	2	2	2	2	2	2	2
	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	2	2	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	11	12
85853-X130 SEE NOTE 10 LEAD FREE OPTION	E	6	6	6	6	6	6	6	6	6	7	5	
	D	6	6	6	6	6	6	6	6	6	6	6	6
	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	6	6	6	6	6	6	6	6	6	6	6	6

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		 www.fcjconnect.com		
ltr	ecr no.	dr	date	linear	0.X ±0.3	COPY		 projection	title METRAL SIGNAL HEADER 2 MOD, 5 ROW PRESS-FIT	
CX					0.XX ±0.13	MM				product family METRAL code size dwg no 213
					.XXX ±.051	←→				
				angles	0° ±2°	scale 1:1		A 85853		
		dr	T.BRUNGARD 11/19/99						cage code 22526	
		enrg	M.STRAWSER 11/19/99							
		chr	M.STRAWSER 11/19/99							
		appd	M.STRAWSER 02/29/00							
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	11	12
85853-X131 SEE NOTE 10 LEAD FREE OPTION	E	9	-	9	-	9	-	9	-	9	-	9	-
	D	9	-	9	-	9	-	9	-	9	-	9	-
	C	-	-	-	-	-	-	-	-	-	-	-	-
	B	9	-	9	-	9	-	9	-	9	-	9	-
	A	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	11	12
85853-X132 SEE NOTE 10 LEAD FREE OPTION	E	6	6	6	6	6	6	6	6	6	6	6	6
	D	6	6	6	6	6	6	6	6	6	6	6	6
	C	6	6	6	6	6	6	6	6	6	6	6	6
	B	5	5	5	5	5	5	6	6	6	6	6	6
	A	5	5	5	5	5	5	6	6	6	6	6	6

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X133 SEE NOTE 10 LEAD FREE OPTION	E	6	6	6	6	6	6	6	6	6	6	6	6
	D	6	6	6	6	6	6	6	6	6	6	6	6
	C	6	6	6	6	6	6	6	6	6	6	6	6
	B	7	6	6	6	6	6	6	6	6	6	6	6
	A	6	6	6	6	6	6	6	6	6	6	6	6

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X134 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	1	1	2	2	3	3
	D	2	2	2	2	2	2	1	1	2	2	3	3
	C	2	2	2	2	2	2	1	1	2	2	3	3
	B	2	2	2	2	2	2	1	1	2	2	3	3
	A	2	2	2	2	2	2	1	1	2	2	3	3

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X135 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	1	1	1	1	1	1	1
	D	2	2	2	2	2	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	1	2	2	2	2	2	2	2
	A	2	2	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	11	12
85853-X136 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2
	D	2	2	2	2	2	2	2	2	2	2	2	2
	C	2	2	2	2	2	2	2	2	2	2	2	2
	B	3	2	2	2	2	2	2	2	2	2	2	2
	A	2	2	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	11	12
85853-X137 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2
	D	2	2	2	2	2	2	2	2	2	2	2	2
	C	2	2	2	2	2	2	2	2	2	2	2	2
	B	2	2	-	-	2	2	2	2	2	2	2	2
	A	2	2	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	11	12
85853-X138 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	3	2	2	2	3	2	3	2	2
	D	2	2	2	3	2	2	2	3	2	3	2	2
	C	2	2	2	2	3	2	2	2	2	3	2	2
	B	2	2	2	2	2	3	2	2	3	2	2	2
	A	2	2	2	2	2	1	2	2	2	3	2	2

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X139 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	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
	A	3	3	3	3	3	3	3	3	3	19	19	19

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X140 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2
	D	2	2	2	2	2	2	2	2	2	2	2	2
	C	4	2	2	2	2	2	4	2	2	2	2	2
	B	2	2	2	2	2	2	2	2	2	2	2	2
	A	2	2	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	11	12
85853-X141 SEE NOTE 10 LEAD FREE OPTION	E	64	64	64	64	64	64	64	64	64	64	64	64
	D	64	64	64	64	64	64	64	64	64	64	64	64
	C	67	64	64	64	64	64	67	64	64	64	64	64
	B	64	64	64	64	64	64	64	64	64	64	64	64
	A	64	64	64	64	64	64	64	64	64	64	64	64

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X142 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2
	D	2	2	2	2	2	2	2	2	2	2	2	2
	C	2	2	2	2	2	2	2	2	2	1	2	1
	B	2	2	2	2	2	2	2	2	2	2	2	2
	A	2	2	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	11	12
85853-X143 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	2	2	2	2	2	2	2
	D	2	2	2	2	2	2	2	2	2	1	2	2
	C	2	2	2	2	2	2	2	2	2	2	1	2
	B	2	2	2	2	2	2	2	2	2	2	2	2
	A	2	2	2	2	2	2	2	2	2	2	2	2

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		FCJ		www.fcjconnect.com	
lfr	ecn no.	dr	date	linear	0.X ±0.3	COPY		projection	title		
CX					0.XX ±0.13	MM			METRAL SIGNAL HEADER		
					.XXX ±.051	←→			2 MOD, 5 ROW PRESS-FIT		
				angles	0° ±2°	scale		product family		code	
				dr	T.BRUNGARD	11/19/99	1:1		METRAL		213
				engr	M.STRAWSER	11/19/99	A		size		sheet
				chr	M.STRAWSER	11/19/99			85853		13
				appd	M.STRAWSER	02/29/00					
sheet index	revision sheet								cage code		
									22526		

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
85853-X144 SEE NOTE 10 LEAD FREE OPTION	E	2	2	2	2	2	1	2	2	2	2	2	2
	D	2	2	2	2	2	1	2	2	2	2	2	2
	C	2	2	2	2	2	2	2	2	2	2	2	2
	B	2	2	2	2	1	2	2	2	2	2	2	2
	A	2	2	2	2	2	2	2	2	2	2	2	2
85853-X145 SEE NOTE 10 LEAD FREE OPTION	E	7	6	6	6	6	6	6	6	6	6	6	6
	D	7	6	6	6	6	6	6	6	6	6	6	6
	C	6	6	6	6	6	6	6	6	6	6	6	6
	B	7	6	6	6	6	6	6	6	6	6	6	6
	A	7	6	6	6	6	6	6	6	6	6	6	6
85853-X146 SEE NOTE 10 LEAD FREE OPTION	E	6	6	6	6	6	6	6	6	6	6	6	6
	D	6	6	6	6	6	6	6	6	6	6	6	6
	C	7	6	6	6	6	5	5	5	5	5	5	5
	B	6	6	6	6	6	6	6	6	6	6	6	6
	A	6	6	6	6	6	6	6	6	6	6	6	6
85853-X147 SEE NOTE 10 LEAD FREE OPTION	E	6	6	6	6	6	6	6	6	5	6	6	6
	D	6	6	6	6	6	6	6	6	5	6	5	6
	C	6	6	6	6	6	6	6	6	5	6	6	6
	B	6	6	6	6	6	6	6	6	6	6	6	6
	A	6	6	6	6	6	6	6	6	6	6	6	5

A

A



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B

B

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		 www.fciconnect.com	
ltr	ecr no.	dr	date	linear	0.X ±0.3		COPY		title METRAL SIGNAL HEADER 2 MOD, 5 ROW PRESS-FIT
CX					0.XX ±0.13		projection		
					.XXX ±.051				
				angles	0° ±2°				product family METRAL code size dwg no 213 sheet 14 85853
		dr	T.BRUNGARD	11/19/99	MM 		scale		
		engr	M.STRAWSER	11/19/99			1:1		
		chr	M.STRAWSER	11/19/99			A		
		appd	M.STRAWSER	02/29/00					
sheet index	revision sheet								

PRODUCT NUMBER
85853-XYX OR 85853-XYXX
85853-XYXLF OR 85853-XYXXLF

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:
85853-XYX IS SnPb
85853-XYXLF IS SN (LEAD FREE)
PLATING ON CONTACT AREA CONFORMS TO PERFORMANCE
LEVEL SHOWN IN TABLE BELOW.
- 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
- 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.)-NI--- 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.)-NI---
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: 85853-X01LF

PLATING IN CONTACT AREA		NOTES
DASH NUMBER	PERFORMANCE LEVEL	-
-PYY OR -PYXX	0.25 um GOLD MIN.	-
-NIYY OR -NIYXX	TELCORDIA CO (NXT)	-
-N5YY OR N5YXX	TELCORDIA UE (NXT)	-
-IYY OR -IYXX	TELCORDIA CO	-
-2YY OR -2YXX	TELECOM CLASS	-
-3YY OR -3YXX	IEC CLASS I	-
-5YY OR -5YXX	TELCORDIA UE	-
-NIYXLF OR -NIYXXLF	TELCORDIA CO (NXT) IEC CLASS I	SEE NOTE 9
-N5YXLF OR N5YXXLF	TELCORDIA UE (NXT)	SEE NOTE 9
-IYXLF OR -IYXXLF	TELCORDIA CO IEC CLASS I	SEE NOTE 9
-2YXLF OR -2YXXLF	TELECOM CLASS	SEE NOTE 9
-5YXLF OR -5YXXLF	TELCORDIA UE	SEE NOTE 9



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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	
CX					0.XX ±0.13	projection			
					.XXX ±.051				
				angles	0° ±2°			product family METRAL code	
				dr	T.BRUNGARD 11/19/99	MM		size	
				engr	M.STRAWSER 11/19/99	scale		dwg no	
				chr	M.STRAWSER 11/19/99	1:1		85853	
				appd	M.STRAWSER 02/29/00			sheet 213	
sheet index		revision sheet						sheet 15	