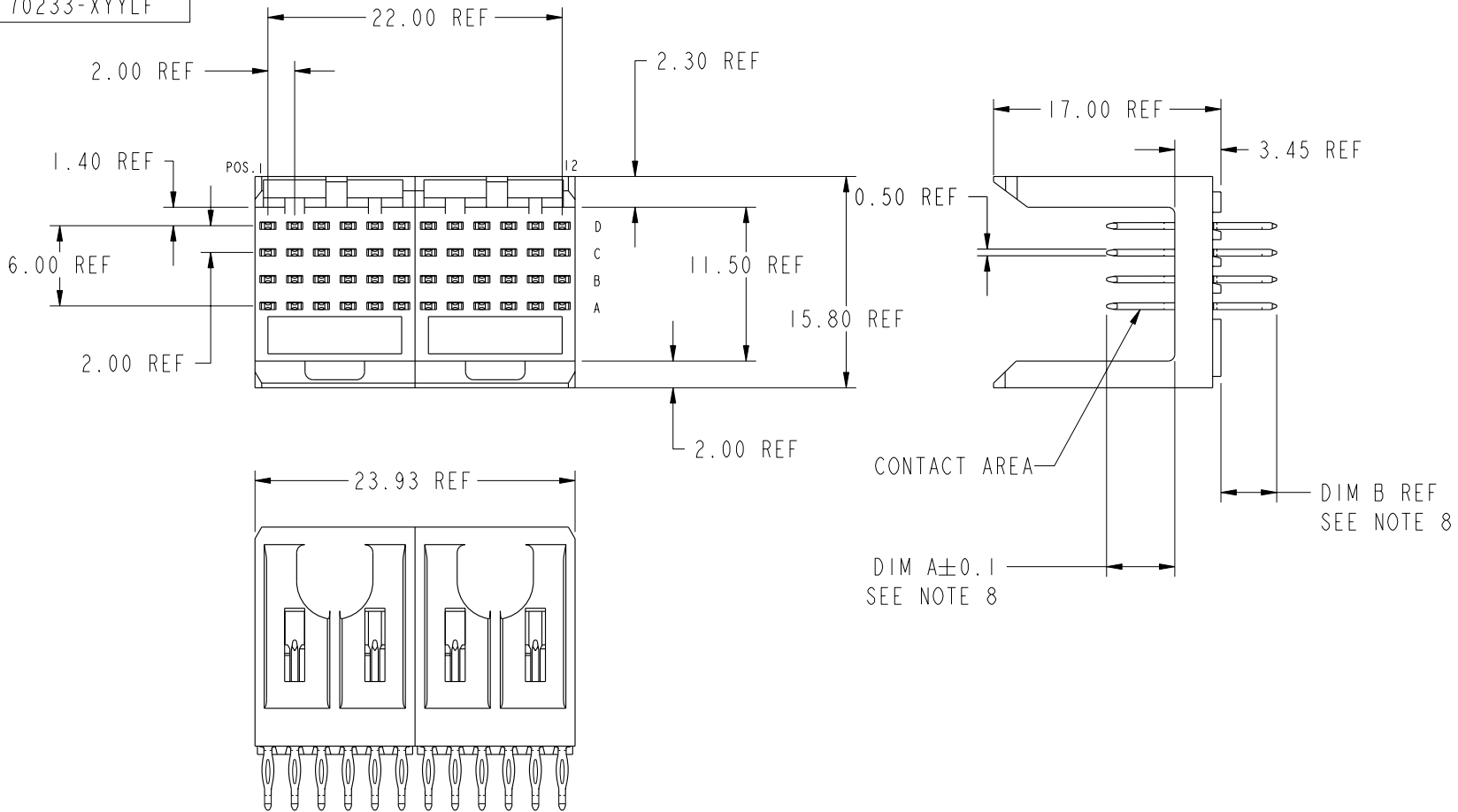


PRODUCT NUMBER
70233-XYX
70233-XYLF



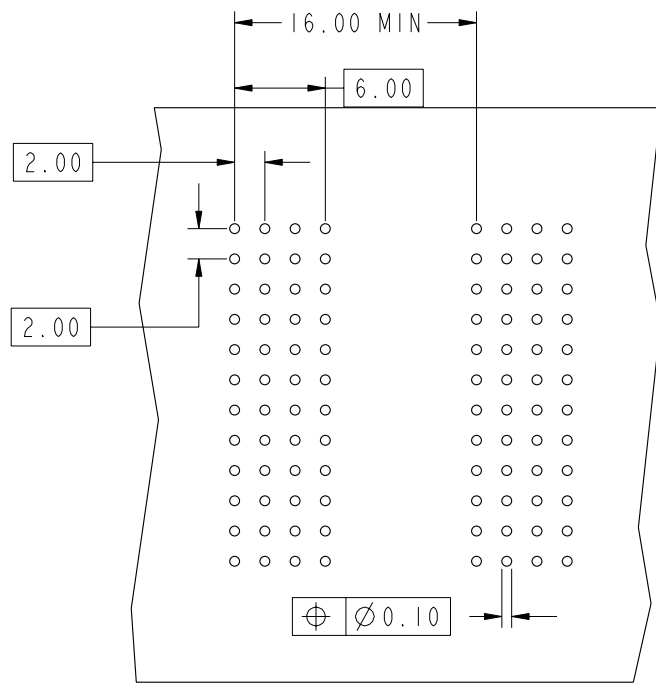
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mat'l code				tolerances unless otherwise specified				CUSTOMER		FCI www.fciconnect.com	
ltr	ecn no.	dr	date	linear	0.X ± 0.3		COPY		title METRAL SIGNAL HEADER 2 MOD, 4 ROW PRESS-FIT		
AF	V06-0498	DCH	2006-05-30		0.XX ± 0.13		projection				
-	-	-	-		.XXX ± .051						
AA	V03-1319	DAI	12/15/03	angles	0° ± 2°				product family METRAL code		
AB	V04-0554	TAB	06/07/04	dr	T.BRUNGARD	11/19/99	MM		size	213	
AC	V05-0079	HTB	02/03/05	engr	M.STRAWSER	11/19/99	← MM →		dwg no	70233	
AD	V05-0030	DAI	02/10/05	chr	M.STRAWSER	11/19/99	scale		A	1 of 9	
AE	V05-1030	LP	11/18/05	appd	M.STRAWSER	02/29/00	2:1				
sheet	revision	AF	AF	AF	AF	AF	AF	AF	AF	AF	
index	sheet	1	2	3	4	5	6	7	8	9	

1 | 2

3 |

4



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
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
19	8.00	4.30
20	8.00	13.60
21	8.00	17.00

REQUIRED PC BOARD LAYOUT
COMPONENT SIDE

SEE PRINT 58351 FOR
ADDITIONAL PCB INFORMATION



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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, 4 ROW PRESS-FIT		
AF					0.XX ±0.13		projection				
					.XXX ±.051						
				angles	0° ±2°				product family		code
				dr	T.BRUNGARD	11/19/99	scale		METRAL		213
				engr	M.STRAWSER	11/19/99	1:1		size		sheet
				chr	M.STRAWSER	11/19/99			A		2
				appd	M.STRAWSER	02/29/00			70233		
sheet index	revision sheet										

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
70233-X10 SEE NOTE 11 LEAD FREE OPTION	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

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
70233-X15 SEE NOTE 11 LEAD FREE OPTION	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
70233-X20 SEE NOTE 11 LEAD FREE OPTION	D	5	5	5	5	5	5	5	5	5	5	5	5
	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	12
70233-X16 SEE NOTE 11 LEAD FREE OPTION	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
70233-X21 SEE NOTE 11 LEAD FREE OPTION	D	5	5	5	5	5	5	5	5	5	5	5	5
	C	5	5	5	5	5	5	5	5	5	5	5	5
	B	5	5	5	5	5	5	5	5	5	5	5	5
	A	5	5	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
70233-X17 SEE NOTE 11 LEAD FREE OPTION	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	2	2	2	2	2	2	2	2	2	2	2	2
	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
70233-X22 SEE NOTE 11 LEAD FREE OPTION	D	5	5	5	5	5	5	5	5	5	5	5	5
	C	5	5	5	5	5	5	5	5	5	5	5	5
	B	5	5	5	5	5	5	5	5	5	5	5	5
	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
70233-X18 SEE NOTE 11 LEAD FREE OPTION	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
70233-X23 SEE NOTE 11 LEAD FREE OPTION	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	12
70233-X19 SEE NOTE 11 LEAD FREE OPTION	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	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
70233-X24 SEE NOTE 11 LEAD FREE OPTION	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	7	7	7	7	7	7	7	7	7	7	7	7
	A	8	8	8	8	8	8	8	8	8	8	8	8

mat'l code		--		tolerances unless otherwise specified		CUSTOMER				www.fciconnect.com	
lfr	ecn no.	dr	date	linear	0.X ±0.3	COPY			title		
AF					0.XX ±0.13	projection	METRAL SIGNAL HEADER				
					.XXX ±.051		2 MOD, 4 ROW PRESS-FIT				
				angles	0° ±2°			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	dwg no		3		
				appd	M.STRAWSER	02/29/00	A		70233		
sheet index	revision sheet						scale				
							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
70233-X25 SEE NOTE 11 LEAD FREE OPTION	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
70233-X26 SEE NOTE 11 LEAD FREE OPTION	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
70233-X27 SEE NOTE 11 LEAD FREE OPTION	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	5	5	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
70233-X28 SEE NOTE 11 LEAD FREE OPTION	D	7	7	7	7	7	7	7	7	7	7	7	7
	C	5	5	5	5	5	5	5	5	5	5	5	5
	B	5	5	5	5	5	5	5	5	5	5	5	5
	A	5	5	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
70233-X29 SEE NOTE 11 LEAD FREE OPTION	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	8	8	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	11	12
70233-X30 SEE NOTE 11 LEAD FREE OPTION	D	9	9	9	9	9	9	9	9	9	9	9	9
	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	11	11	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	11	12
70233-X31 SEE NOTE 11 LEAD FREE OPTION	D	9	9	9	9	9	9	9	9	9	9	9	9
	C	9	9	9	9	9	9	9	9	9	9	9	9
	B	9	9	9	9	9	9	9	9	9	9	9	9
	A	9	9	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	11	12
70233-X32 SEE NOTE 11 LEAD FREE OPTION	D	9	9	9	9	9	9	9	9	9	9	9	9
	C	9	9	9	9	9	9	9	9	9	9	9	9
	B	9	9	9	9	9	9	9	9	9	9	9	9
	A	11	11	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	11	12
70233-X33 SEE NOTE 11 LEAD FREE OPTION	D	11	11	11	11	11	11	11	11	11	11	11	11
	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	11	11	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	11	12
70233-X34 SEE NOTE 11 LEAD FREE OPTION	D	12	12	12	12	12	12	12	12	12	12	12	12
	C	11	11	11	11	11	11	11	11	11	11	11	11
	B	11	11	11	11	11	11	11	11	11	11	11	11
	A	12	12	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	11	12
70233-X35 SEE NOTE 11 LEAD FREE OPTION	D	11	11	11	11	11	11	11	11	11	11	11	11
	C	11	11	11	11	11	11	11	11	11	11	11	11
	B	11	11	11	11	11	11	11	11	11	11	11	11
	A	11	11	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	11	12
70233-X36 SEE NOTE 11 LEAD FREE OPTION	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

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
70233-X37 SEE NOTE 11 LEAD FREE OPTION	D	11	11	11	11	11	11	11	11	11	11	11	11
	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	9	9	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	11	12
70233-X38 SEE NOTE 11 LEAD FREE OPTION	D	11	11	11	11	11	11	11	11	11	11	11	11
	C	9	9	9	9	9	9	9	9	9	9	9	9
	B	9	9	9	9	9	9	9	9	9	9	9	9
	A	9	9	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	11	12
70233-X39 SEE NOTE 11 LEAD FREE OPTION	D	12	12	12	12	12	12	12	12	12	12	12	12
	C	12	12	12	12	12	12	12	12	12	12	12	12
	B	12	12	12	12	12	12	12	12	12	12	12	12
	A	12	12	12	12	12	12	12	12	12	12	12	12

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		FCi		www.fciconnect.com		
lfr	ecr no.	dr	date	linear	0.X ± 0.3		COPY		title METRAL SIGNAL HEADER 2 MOD, 4 ROW PRESS-FIT			
AF					0.XX ± 0.13		projection					
				angles	.XXX ± 0.051				product family METRAL code 213			
					0° ± 2°							
		dr	T.BRUNGARD	11/19/99					size dwg no 70233		sheet 4	
		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
70233-X40 SEE NOTE 11 LEAD FREE OPTION	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	4	4	4	4	4	4	4	4	4	4	4	4
	A	2	2	2	2	2	2	2	2	2	2	2	2
70233-X41 SEE NOTE 11 LEAD FREE OPTION	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	4	4	4	4	4	4	4	4	4	4	4	4
70233-X42 SEE NOTE 11 LEAD FREE OPTION	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	1	1	1	1	1	1	1	1	1	1	1	1
	A	2	2	2	2	2	2	2	2	2	2	2	2
70233-X43 SEE NOTE 11 LEAD FREE OPTION	D	13	13	13	13	13	13	13	13	13	13	13	13
	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
70233-X44 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2	2	2	2	2	2	2
	C	3	3	3	3	3	3	3	3	3	3	3	3
	B	4	4	4	4	4	4	4	4	4	4	4	4
	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
70233-X45 SEE NOTE 11 LEAD FREE OPTION	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	3	3	3	3	3	3	3	3	3	3	3	3
	A	4	4	4	4	4	4	4	4	4	4	4	4
70233-X46 SEE NOTE 11 LEAD FREE OPTION	D	19	19	19	19	19	19	19	19	19	19	19	19
	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
70233-X47 SEE NOTE 11 LEAD FREE OPTION	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	13	13	13	13	13	13	13	13	13	13	13	13
	A	13	13	13	13	13	13	13	13	13	13	13	13
70233-X48 SEE NOTE 11 LEAD FREE OPTION	D	19	19	19	19	19	19	19	19	19	19	19	19
	C	19	19	19	19	19	19	19	19	19	19	19	19
	B	19	19	19	19	19	19	19	19	19	19	19	19
	A	19	19	19	19	19	19	19	19	19	19	19	19
70233-X49 SEE NOTE 11 LEAD FREE OPTION	D	4	4	4	4	4	4	4	4	4	4	4	4
	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
70233-X50 SEE NOTE 11 LEAD FREE OPTION	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	8	8	8	8	8	8	8	8	8	8	8	8
	A	6	6	6	6	6	6	6	6	6	6	6	6
70233-X51 SEE NOTE 11 LEAD FREE OPTION	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	8	8	8	8	8	8	8	8	8	8	8	8
70233-X52 SEE NOTE 11 LEAD FREE OPTION	D	5	5	5	5	5	5	5	5	5	5	5	5
	C	5	5	5	5	5	5	5	5	5	5	5	5
	B	5	5	5	5	5	5	5	5	5	5	5	5
	A	6	6	6	6	6	6	6	6	6	6	6	6
70233-X53 SEE NOTE 11 LEAD FREE OPTION	D	14	14	14	14	14	14	14	14	14	14	14	14
	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
70233-X54 SEE NOTE 11 LEAD FREE OPTION	D	6	6	6	6	6	6	6	6	6	6	6	6
	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	7	7	7	7	7	7	7	7	7	7	7	7

mat'l code		--		tolerances unless otherwise specified		CUSTOMER				www.fcjconnect.com	
lfr	ecr no.	dr	date	linear	0.X ±0.3		COPY		projection	title	
AF					0.XX ±0.13		MM			METRAL SIGNAL HEADER	
				angles	.XXX ±.051		MM		product family		5
					0° ±2°		1:1		METRAL		
				dr	T.BRUNGARD	11/19/99	A		size		70233
				enrg	M.STRAWSER	11/19/99	A		dwg no		
				chr	M.STRAWSER	11/19/99	A		cage code		22526
				appd	M.STRAWSER	02/29/00	A		4		
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
70233-X55 SEE NOTE 11 LEAD FREE OPTION	D	5	5	5	5	5	5	5	5	5	5	5	5
	C	6	6	6	6	6	6	6	6	6	6	6	6
	B	7	7	7	7	7	7	7	7	7	7	7	7
	A	8	8	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	11	12
70233-X60 SEE NOTE 11 LEAD FREE OPTION	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

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
70233-X65 SEE NOTE 11 LEAD FREE OPTION	D	9	9	9	9	9	9	9	9	9	9	9	9
	C	10	10	10	10	10	10	10	10	10	10	10	10
	B	11	11	11	11	11	11	11	11	11	11	11	11
	A	12	12	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	11	12
70233-X56 SEE NOTE 11 LEAD FREE OPTION	D	20	20	20	20	20	20	20	20	20	20	20	20
	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
70233-X61 SEE NOTE 11 LEAD FREE OPTION	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	12	12	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	11	12
70233-X62 SEE NOTE 11 LEAD FREE OPTION	D	12	12	12	12	12	12	12	12	12	12	12	12
	C	12	12	12	12	12	12	12	12	12	12	12	12
	B	15	15	15	15	15	15	15	15	15	15	15	15
	A	15	15	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	11	12
70233-X57 SEE NOTE 11 LEAD FREE OPTION	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	14	14	14	14	14	14	14	14	14	14	14	14
	A	14	14	14	14	14	14	14	14	14	14	14	14

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2						
		1	2	3	4	5	6	7	8	9	10	11	12
70233-X63 SEE NOTE 11 LEAD FREE OPTION	D	15	15	15	15	15	15	15	15	15	15	15	15
	C	11	11	11	11	11	11	11	11	11	11	11	11
	B	11	11	11	11	11	11	11	11	11	11	11	11
	A	11	11	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	11	12
70233-X64 SEE NOTE 11 LEAD FREE OPTION	D	12	12	12	12	12	12	12	12	12	12	12	12
	C	11	11	11	11	11	11	11	11	11	11	11	11
	B	11	11	11	11	11	11	11	11	11	11	11	11
	A	11	11	11	11	11	11	11	11	11	11	11	11

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		 www.fciconnect.com	
ltr	ecr no.	dr	date	linear	0.X ±0.3		COPY		title
AF					0.XX ±0.13		projection		
				angles	.XXX ±.051				product family
					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								

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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
70233-X70 SEE NOTE 11 LEAD FREE OPTION	D	4	4	4	4	4	4	4	4	4	4	4	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	2
70233-X71 SEE NOTE 11 LEAD FREE OPTION	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	1	1	1	1	1	1	1	1	1	1	1	1
	A	3	3	3	3	3	3	3	3	3	3	3	3
70233-X72 SEE NOTE 11 LEAD FREE OPTION	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	4	4	4	4	4	4	4	4	4	4	4	4
	A	19	19	19	19	19	19	19	19	19	19	19	19
70233-X73 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2	2	2	2	2	2	2
	C	3	3	3	3	3	3	3	3	3	3	3	3
	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
70233-X74 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2	2	2	2	2	2	2
	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
70233-X75 SEE NOTE 11 LEAD FREE OPTION	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	3	3	3	3	3	3	3	3	3	3	3	3
70233-X76 SEE NOTE 11 LEAD FREE OPTION	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	1	1	1	1	1	1	1	1	1	1	1	1
	A	19	19	19	19	19	19	19	19	19	19	19	19
70233-X77 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2	2	2	2	2	2	2
	C	3	3	3	3	3	3	3	3	3	3	3	3
	B	19	19	19	19	19	19	19	19	19	19	19	19
	A	3	3	3	3	3	3	3	3	3	3	3	3
70233-X78 SEE NOTE 11 LEAD FREE OPTION	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	1	1	1	1	1	1	1	1	1	1	1	1
70233-X79 SEE NOTE 11 LEAD FREE OPTION	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	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
70233-X80 SEE NOTE 11 LEAD FREE OPTION	D	8	8	8	8	8	8	8	8	8	8	8	8
	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
70233-X81 SEE NOTE 11 LEAD FREE OPTION	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	5	5	5	5	5	5	5	5	5	5	5	5
	A	7	7	7	7	7	7	7	7	7	7	7	7
70233-X82 SEE NOTE 11 LEAD FREE OPTION	D	6	6	6	6	6	6	6	6	6	6	6	6
	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	20	20	20	20	20	20	20	20	20	20	20	20
70233-X83 SEE NOTE 11 LEAD FREE OPTION	D	6	6	6	6	6	6	6	6	6	6	6	6
	C	7	7	7	7	7	7	7	7	7	7	7	7
	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
70233-X84 SEE NOTE 11 LEAD FREE OPTION	D	6	6	6	6	6	6	6	6	6	6	6	6
	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

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		 www.fciconnect.com	
lfr	ecr no.	dr	date	linear	0.X ±0.3	COPY		 title METRAL SIGNAL HEADER 2 MOD, 4 ROW PRESS-FIT	
AF					0.XX ±0.13	projection			
				angles	.XXX ±.051	 product family METRAL code			
					0° ±2°	 size dwg no			
		dr	T.BRUNGARD	11/19/99	 scale 1:1		METRAL code 213		
		enrg	M.STRAWSER	11/19/99	A 70233		sheet 7		
		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
70233-X85 SEE NOTE 11 LEAD FREE OPTION	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	7	7	7	7	7	7	7	7	7	7	7	7
70233-X86 SEE NOTE 11 LEAD FREE OPTION	D	20	20	20	20	20	20	20	20	20	20	20	20
	C	5	5	5	5	5	5	5	5	5	5	5	5
	B	5	5	5	5	5	5	5	5	5	5	5	5
	A	20	20	20	20	20	20	20	20	20	20	20	20
70233-X87 SEE NOTE 11 LEAD FREE OPTION	D	6	6	6	6	6	6	6	6	6	6	6	6
	C	7	7	7	7	7	7	7	7	7	7	7	7
	B	20	20	20	20	20	20	20	20	20	20	20	20
	A	7	7	7	7	7	7	7	7	7	7	7	7
70233-X88 SEE NOTE 11 LEAD FREE OPTION	D	5	5	5	5	5	5	5	5	5	5	5	5
	C	5	5	5	5	5	5	5	5	5	5	5	5
	B	7	7	7	7	7	7	7	7	7	7	7	7
	A	5	5	5	5	5	5	5	5	5	5	5	5
70233-X89 SEE NOTE 11 LEAD FREE OPTION	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	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
70233-X90 SEE NOTE 11 LEAD FREE OPTION	D	12	12	12	12	12	12	12	12	12	12	12	12
	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
70233-X91 SEE NOTE 11 LEAD FREE OPTION	D	11	11	11	11	11	11	11	11	11	11	11	11
	C	11	11	11	11	11	11	11	11	11	11	11	11
	B	9	9	9	9	9	9	9	9	9	9	9	9
	A	11	11	11	11	11	11	11	11	11	11	11	11
70233-X92 SEE NOTE 11 LEAD FREE OPTION	D	10	10	10	10	10	10	10	10	10	10	10	10
	C	12	12	12	12	12	12	12	12	12	12	12	12
	B	12	12	12	12	12	12	12	12	12	12	12	12
	A	21	21	21	21	21	21	21	21	21	21	21	21
70233-X93 SEE NOTE 11 LEAD FREE OPTION	D	10	10	10	10	10	10	10	10	10	10	10	10
	C	11	11	11	11	11	11	11	11	11	11	11	11
	B	10	10	10	10	10	10	10	10	10	10	10	10
	A	11	11	11	11	11	11	11	11	11	11	11	11
70233-X94 SEE NOTE 11 LEAD FREE OPTION	D	10	10	10	10	10	10	10	10	10	10	10	10
	C	11	11	11	11	11	11	11	11	11	11	11	11
	B	11	11	11	11	11	11	11	11	11	11	11	11
	A	11	11	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	11	12
70233-X95 SEE NOTE 11 LEAD FREE OPTION	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	11	11	11	11	11	11	11	11	11	11	11	11
70233-X96 SEE NOTE 11 LEAD FREE OPTION	D	21	21	21	21	21	21	21	21	21	21	21	21
	C	9	9	9	9	9	9	9	9	9	9	9	9
	B	9	9	9	9	9	9	9	9	9	9	9	9
	A	21	21	21	21	21	21	21	21	21	21	21	21
70233-X97 SEE NOTE 11 LEAD FREE OPTION	D	10	10	10	10	10	10	10	10	10	10	10	10
	C	11	11	11	11	11	11	11	11	11	11	11	11
	B	21	21	21	21	21	21	21	21	21	21	21	21
	A	11	11	11	11	11	11	11	11	11	11	11	11
70233-X98 SEE NOTE 11 LEAD FREE OPTION	D	9	9	9	9	9	9	9	9	9	9	9	9
	C	9	9	9	9	9	9	9	9	9	9	9	9
	B	11	11	11	11	11	11	11	11	11	11	11	11
	A	9	9	9	9	9	9	9	9	9	9	9	9
70233-X99 SEE NOTE 11 LEAD FREE OPTION	D	11	11	11	11	11	11	11	11	11	11	11	11
	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

mat'l code		--		tolerances unless otherwise specified		CUSTOMER		FCJ		www.fcjconnect.com	
lfr	ecr no.	dr	date	linear	0.X ±0.3	COPY		projection	title		
AF					0.XX ±0.13	MM			METRAL SIGNAL HEADER		
					angles	.XXX ±.051	MM		2 MOD, 4 ROW PRESS-FIT		
				dr	0° ±2°	MM		product family		code	
				engr	T.BRUNGARD 11/19/99	MM		METRAL		213	
				chr	M.STRAWSER 11/19/99	MM		size		sheet	
				appd	M.STRAWSER 11/19/99	MM		A		8	
					M.STRAWSER 02/29/00	MM		70233			
sheet index	revision sheet					scale 1:1					

PRODUCT NUMBER
70233-XYX
70233-XYLFF

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:
55422 -XYX IS SnPb
55422-XYLFF 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

PLATING IN CONTACT AREA		
DASH NUMBER	PERFORMANCE LEVEL	NOTES
-AYY	TELCORDIA CO	SEE NOTE 9
-NIYY	TELCORDIA CO (NXT)	-
-N5YY	TELCORDIA UE (NXT)	-
-1YY	TELCORDIA CO	-
-2YY	TELECOM CLASS	-
-3YY	IEC CLASS I	-
-5YY	TELCORDIA UE	-
-9YY	TELCORDIA CO	-
-AYYLF	TELCORDIA CO	SEE NOTE 10
-NIYYLF	TELCORDIA CO (NXT) IEC CLASS I	SEE NOTE 10
-N5YYLF	TELCORDIA UE (NXT)	SEE NOTE 10
-1YYLF	TELCORDIA CO IEC CLASS I	SEE NOTE 10
-2YYLF	TELECOM CLASS	SEE NOTE 10
-5YYLF	TELCORDIA UE	SEE NOTE 10

- AFTER INSERTION INTO CIRCUIT BOARD WITH QUALIFIED TOOL.
- A PLATING HAS Au FLASH IN PRESS FIT AREA (LEAD FREE).
- 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: 70233-X01LF

mat'l code				tolerances unless otherwise specified		CUSTOMER		FCj www.fciconnect.com	
ltr	ecr no.	dr	date	linear	0.X ±0.3	COPY		projection	title METRAL SIGNAL HEADER 2 MOD, 4 ROW PRESS-FIT
AF					0.XX ±0.13	MM			
					.XXX ±.051	scale 1:1			
				angles	0° ±2°	product family METRAL		code	213
				dr	T.BRUNGARD 11/19/99	size		dwg no	70233
				engr	M.STRAWSER 11/19/99	A		sheet	9
				chr	M.STRAWSER 11/19/99				
				appd	M.STRAWSER 02/29/00				
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