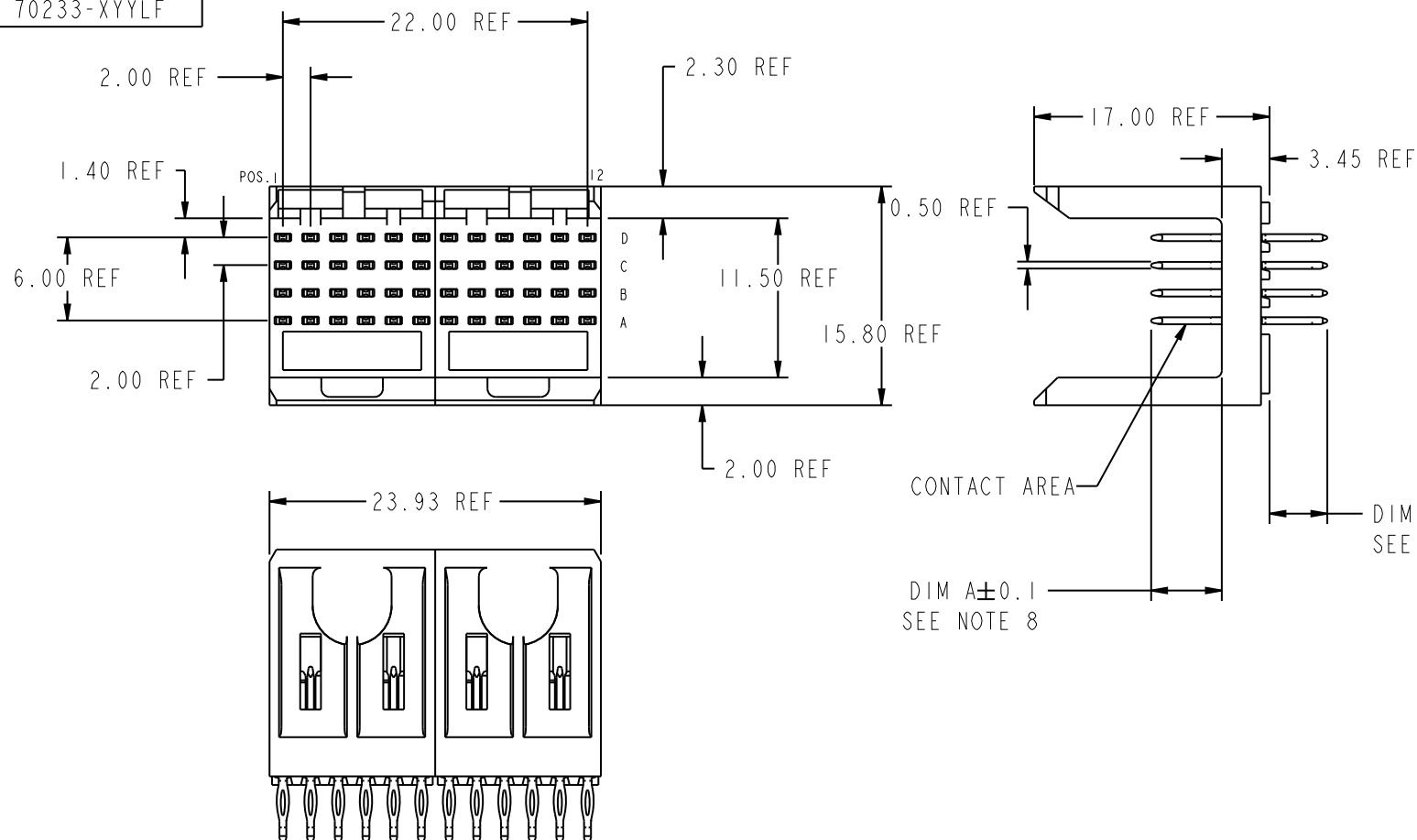




PRODUCT NUMBER
70233-XXX
70233-XXYLF



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, 4 ROW PRESS-FIT						
AF	V06-0498	DCH	2006-05-30		0.XX ±0.13				projection											
AG	DG09-0256	TER	2009-08-19		.XXX ±.051															
-	-	-	-	angles	0° ±2°															
AB	V04-0554	TAB	06/07/04	dr	T.BRUNGARD 11/19/99				scale 2:1				product family				code			
AC	V05-0079	HTB	02/03/05	enr	M.STRAWER 11/19/99								size				dwg no			
AD	V05-0030	DAI	02/10/05	chr	M.STRAWER 11/19/99								A				70233			
AE	V05-1030	LP	11/18/05	appd	M.STRAWER 02/29/00															
sheet index		revision		AG	AG	AG	AG	AG	AG	AG	AG	AG	AG							
		sheet		1	2	3	4	5	6	7	8	9								

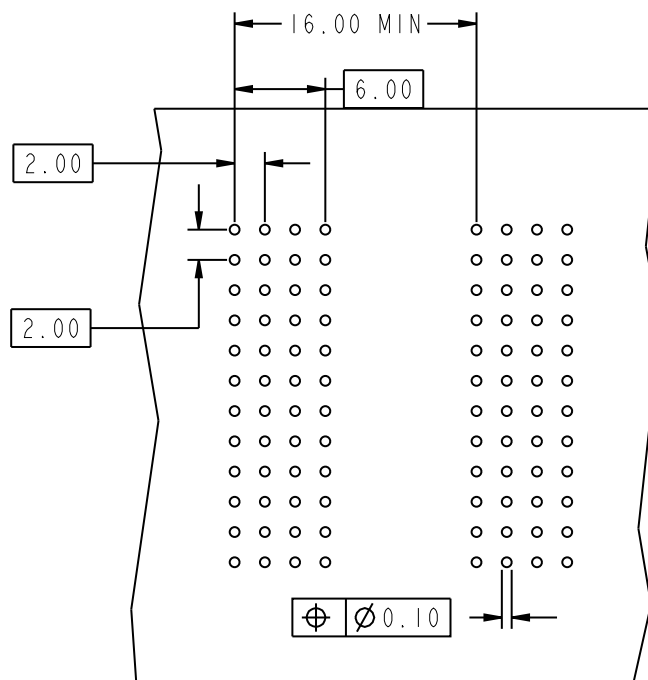
cage code 22526

Pro/E

PDM: Rev:AG

STATUS:Released

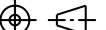
Printed: Feb 20, 2010



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
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

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

cage code 22526

Pro/E

PDM: Rev:AG

STATUS:Released

Printed: Feb 20, 2010



METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
70233-X10 SEE NOTE 11 LEAD FREE OPTION	D	1	1	1	1	1	1	1	1	1	1
	C	2	2	2	2	2	2	2	2	2	2
	B	2	2	2	2	2	2	2	2	2	2
	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
70233-X15 SEE NOTE 11 LEAD FREE OPTION	D	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
	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
70233-X20 SEE NOTE 11 LEAD FREE OPTION	D	5	5	5	5	5	5	5	5	5	5
	C	6	6	6	6	6	6	6	6	6	6
	B	6	6	6	6	6	6	6	6	6	6
	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
70233-X16 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2	2	2	2	2
	C	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

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

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

mat'l code				tolerances unless otherwise specified				CUSTOMER		FCJ www.fcjconnect.com	
lfr	ecn no.	dr	date	linear	0.X ±0.3			projection		title METRAL SIGNAL HEADER 2 MOD, 4 ROW PRESS-FIT	
AG					0.XX ±0.13						
					.XXX ±0.051						
				angles	0° ±2°			 scale 1:1	product family METRAL		code 213 sheet 3
				dr	T.BRUNGARD 11/19/99						
				enrg	M.STRAWSE 11/19/99						
				chr	M.STRAWSE 11/19/99						
				appd	M.STRAWSE 02/29/00						
sheet index	revision	sheet									



METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
70233-X25 SEE NOTE 11 LEAD FREE OPTION	D	7	7	7	7	7	7	7	7	7	7
	C	7	7	7	7	7	7	7	7	7	7
	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
70233-X26 SEE NOTE 11 LEAD FREE OPTION	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
METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
70233-X27 SEE NOTE 11 LEAD FREE OPTION	D	7	7	7	7	7	7	7	7	7	7
	C	6	6	6	6	6	6	6	6	6	6
	B	6	6	6	6	6	6	6	6	6	6
	A	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
70233-X28 SEE NOTE 11 LEAD FREE OPTION	D	7	7	7	7	7	7	7	7	7	7
	C	5	5	5	5	5	5	5	5	5	5
	B	5	5	5	5	5	5	5	5	5	5
	A	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
70233-X29 SEE NOTE 11 LEAD FREE OPTION	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

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
70233-X30 SEE NOTE 11 LEAD FREE OPTION	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
70233-X31 SEE NOTE 11 LEAD FREE OPTION	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
METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
70233-X32 SEE NOTE 11 LEAD FREE OPTION	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
METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
70233-X33 SEE NOTE 11 LEAD FREE OPTION	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
70233-X34 SEE NOTE 11 LEAD FREE OPTION	D	12	12	12	12	12	12	12	12	12	12
	C	11	11	11	11	11	11	11	11	11	11
	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
70233-X35 SEE NOTE 11 LEAD FREE OPTION	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
METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
70233-X36 SEE NOTE 11 LEAD FREE OPTION	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	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
70233-X37 SEE NOTE 11 LEAD FREE OPTION	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	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
70233-X38 SEE NOTE 11 LEAD FREE OPTION	D	11	11	11	11	11	11	11	11	11	11
	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
METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
70233-X39 SEE NOTE 11 LEAD FREE OPTION	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	12	12	12	12	12	12	12	12	12	12

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



METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
70233-X40 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2	2	2	2	2
	C	2	2	2	2	2	2	2	2	2	2
	B	4	4	4	4	4	4	4	4	4	4
	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
70233-X45 SEE NOTE 11 LEAD FREE OPTION	D	1	1	1	1	1	1	1	1	1	1
	C	2	2	2	2	2	2	2	2	2	2
	B	3	3	3	3	3	3	3	3	3	3
	A	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
70233-X50 SEE NOTE 11 LEAD FREE OPTION	D	6	6	6	6	6	6	6	6	6	6
	C	6	6	6	6	6	6	6	6	6	6
	B	8	8	8	8	8	8	8	8	8	8
	A	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
70233-X46 SEE NOTE 11 LEAD FREE OPTION	D	19	19	19	19	19	19	19	19	19	19
	C	3	3	3	3	3	3	3	3	3	3
	B	3	3	3	3	3	3	3	3	3	3
	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
70233-X51 SEE NOTE 11 LEAD FREE OPTION	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	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
70233-X47 SEE NOTE 11 LEAD FREE OPTION	D	4	4	4	4	4	4	4	4	4	4
	C	4	4	4	4	4	4	4	4	4	4
	B	13	13	13	13	13	13	13	13	13	13
	A	13	13	13	13	13	13	13	13	13	13

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
70233-X52 SEE NOTE 11 LEAD FREE OPTION	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	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
70233-X48 SEE NOTE 11 LEAD FREE OPTION	D	19	19	19	19	19	19	19	19	19	19
	C	19	19	19	19	19	19	19	19	19	19
	B	19	19	19	19	19	19	19	19	19	19
	A	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
70233-X53 SEE NOTE 11 LEAD FREE OPTION	D	14	14	14	14	14	14	14	14	14	14
	C	7	7	7	7	7	7	7	7	7	7
	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
70233-X49 SEE NOTE 11 LEAD FREE OPTION	D	4	4	4	4	4	4	4	4	4	4
	C	3	3	3	3	3	3	3	3	3	3
	B	3	3	3	3	3	3	3	3	3	3
	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
70233-X54 SEE NOTE 11 LEAD FREE OPTION	D	6	6	6	6	6	6	6	6	6	6
	C	7	7	7	7	7	7	7	7	7	7
	B	8	8	8	8	8	8	8	8	8	8
	A	7	7	7	7	7	7	7	7	7	7

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



METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
70233-X55 SEE NOTE 11 LEAD FREE OPTION	D	5	5	5	5	5	5	5	5	5	5
	C	6	6	6	6	6	6	6	6	6	6
	B	7	7	7	7	7	7	7	7	7	7
	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
70233-X56 SEE NOTE 11 LEAD FREE OPTION	D	20	20	20	20	20	20	20	20	20	20
	C	7	7	7	7	7	7	7	7	7	7
	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
70233-X57 SEE NOTE 11 LEAD FREE OPTION	D	8	8	8	8	8	8	8	8	8	8
	C	8	8	8	8	8	8	8	8	8	8
	B	14	14	14	14	14	14	14	14	14	14
	A	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
70233-X58 SEE NOTE 11 LEAD FREE OPTION	D	20	20	20	20	20	20	20	20	20	20
	C	20	20	20	20	20	20	20	20	20	20
	B	20	20	20	20	20	20	20	20	20	20
	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
70233-X59 SEE NOTE 11 LEAD FREE OPTION	D	8	8	8	8	8	8	8	8	8	8
	C	7	7	7	7	7	7	7	7	7	7
	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
70233-X60 SEE NOTE 11 LEAD FREE OPTION	D	10	10	10	10	10	10	10	10	10	10
	C	10	10	10	10	10	10	10	10	10	10
	B	12	12	12	12	12	12	12	12	12	12
	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
70233-X61 SEE NOTE 11 LEAD FREE OPTION	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
70233-X62 SEE NOTE 11 LEAD FREE OPTION	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	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
70233-X63 SEE NOTE 11 LEAD FREE OPTION	D	15	15	15	15	15	15	15	15	15	15
	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
METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
70233-X64 SEE NOTE 11 LEAD FREE OPTION	D	10	10	10	10	10	10	10	10	10	10
	C	11	11	11	11	11	11	11	11	11	11
	B	12	12	12	12	12	12	12	12	12	12
	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
70233-X65 SEE NOTE 11 LEAD FREE OPTION	D	9	9	9	9	9	9	9	9	9	9
	C	10	10	10	10	10	10	10	10	10	10
	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
70233-X66 SEE NOTE 11 LEAD FREE OPTION	D	21	21	21	21	21	21	21	21	21	21
	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
METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
70233-X67 SEE NOTE 11 LEAD FREE OPTION	D	12	12	12	12	12	12	12	12	12	12
	C	12	12	12	12	12	12	12	12	12	12
	B	15	15	15	15	15	15	15	15	15	15
	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
70233-X68 SEE NOTE 11 LEAD FREE OPTION	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
METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
70233-X69 SEE NOTE 11 LEAD FREE OPTION	D	12	12	12	12	12	12	12	12	12	12
	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

mat'l code				tolerances unless otherwise specified		CUSTOMER		FCI www.fciconnect.com	
lfr	ecn no.	dr	date	linear	0.X ±0.3	projection	COPY	title	METRAL SIGNAL HEADER 2 MOD, 4 ROW PRESS-FIT
AG					0.XX ±0.13				
					.XXX ±0.051				
				angles	0° ±2°	MM	scale	product family	METRAL
				dr	T.BRUNGARD 11/19/99				
				enrg	M.STRAWSE 11/19/99				
				chr	M.STRAWSE 11/19/99	A	size	dwg no	213
				appd	M.STRAWSE 02/29/00				
sheet	revision								
index	sheet								



METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
70233-X70 SEE NOTE 11 LEAD FREE OPTION	D	4	4	4	4	4	4	4	4	4	4
	C	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
METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
70233-X71 SEE NOTE 11 LEAD FREE OPTION	D	3	3	3	3	3	3	3	3	3	3
	C	3	3	3	3	3	3	3	3	3	3
	B	1	1	1	1	1	1	1	1	1	1
	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
70233-X72 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2	2	2	2	2
	C	4	4	4	4	4	4	4	4	4	4
	B	4	4	4	4	4	4	4	4	4	4
	A	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
70233-X73 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2	2	2	2	2
	C	3	3	3	3	3	3	3	3	3	3
	B	2	2	2	2	2	2	2	2	2	2
	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
70233-X74 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2	2	2	2	2
	C	3	3	3	3	3	3	3	3	3	3
	B	3	3	3	3	3	3	3	3	3	3
	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
70233-X75 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2	2	2	2	2
	C	2	2	2	2	2	2	2	2	2	2
	B	2	2	2	2	2	2	2	2	2	2
	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
70233-X76 SEE NOTE 11 LEAD FREE OPTION	D	19	19	19	19	19	19	19	19	19	19
	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
METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
70233-X77 SEE NOTE 11 LEAD FREE OPTION	D	2	2	2	2	2	2	2	2	2	2
	C	3	3	3	3	3	3	3	3	3	3
	B	19	19	19	19	19	19	19	19	19	19
	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
70233-X78 SEE NOTE 11 LEAD FREE OPTION	D	1	1	1	1	1	1	1	1	1	1
	C	1	1	1	1	1	1	1	1	1	1
	B	3	3	3	3	3	3	3	3	3	3
	A	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
70233-X79 SEE NOTE 11 LEAD FREE OPTION	D	3	3	3	3	3	3	3	3	3	3
	C	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

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
70233-X80 SEE NOTE 11 LEAD FREE OPTION	D	8	8	8	8	8	8	8	8	8	8
	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
METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
70233-X81 SEE NOTE 11 LEAD FREE OPTION	D	7	7	7	7	7	7	7	7	7	7
	C	7	7	7	7	7	7	7	7	7	7
	B	5	5	5	5	5	5	5	5	5	5
	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
70233-X82 SEE NOTE 11 LEAD FREE OPTION	D	6	6	6	6	6	6	6	6	6	6
	C	8	8	8	8	8	8	8	8	8	8
	B	8	8	8	8	8	8	8	8	8	8
	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
70233-X83 SEE NOTE 11 LEAD FREE OPTION	D	6	6	6	6	6	6	6	6	6	6
	C	7	7	7	7	7	7	7	7	7	7
	B	6	6	6	6	6	6	6	6	6	6
	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
70233-X84 SEE NOTE 11 LEAD FREE OPTION	D	6	6	6	6	6	6	6	6	6	6
	C	7	7	7	7	7	7	7	7	7	7
	B	7	7	7	7	7	7	7	7	7	7
	A	7	7	7	7	7	7	7	7	7	7

mat'l code				tolerances unless otherwise specified		CUSTOMER		FCJ			
lfr	ecn no.	dr	date	linear	0.X ± 0.3	projection	COPY	www.fciconnect.com			
AG					0.XX ± 0.13				title	METRAL SIGNAL HEADER	
					.XXX ± 0.051					2 MOD, 4 ROW PRESS-FIT	
				angles	0° $\pm 2^\circ$		MM	product family			
				dr	T.BRUNGARD			11/19/99	METRAL		
				enrg	M.STRAWSE			11/19/99	code		
				chr	M.STRAWSE			11/19/99	213		
				appd	M.STRAWSE	02/29/00	scale	A	size		
									70233		
sheet	revision							sheet			
index	sheet							7			



METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
70233-X85 SEE NOTE 11 LEAD FREE OPTION	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	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
	C	5	5	5	5	5	5	5	5	5	5
	B	5	5	5	5	5	5	5	5	5	5
	A	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
	C	7	7	7	7	7	7	7	7	7	7
	B	20	20	20	20	20	20	20	20	20	20
	A	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
	C	5	5	5	5	5	5	5	5	5	5
	B	7	7	7	7	7	7	7	7	7	7
	A	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
	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

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
70233-X90 SEE NOTE 11 LEAD FREE OPTION	D	12	12	12	12	12	12	12	12	12	12
	C	10	10	10	10	10	10	10	10	10	10
	B	10	10	10	10	10	10	10	10	10	10
	A	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
	C	11	11	11	11	11	11	11	11	11	11
	B	9	9	9	9	9	9	9	9	9	9
	A	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
	C	12	12	12	12	12	12	12	12	12	12
	B	12	12	12	12	12	12	12	12	12	12
	A	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
	C	11	11	11	11	11	11	11	11	11	11
	B	10	10	10	10	10	10	10	10	10	10
	A	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
	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

METRAL P/N	ROW	CONTACT CODE MOD. 1					MOD. 2				
		1	2	3	4	5	6	7	8	9	10
70233-X95 SEE NOTE 11 LEAD FREE OPTION	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	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
	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
70233-X97 SEE NOTE 11 LEAD FREE OPTION	D	10	10	10	10	10	10	10	10	10	10
	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
70233-X98 SEE NOTE 11 LEAD FREE OPTION	D	9	9	9	9	9	9	9	9	9	9
	C	9	9	9	9	9	9	9	9	9	9
	B	11	11	11	11	11	11	11	11	11	11
	A	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
	C	10	10	10	10	10	10	10	10	10	10
	B	10	10	10	10	10	10	10	10	10	10
	A	10	10	10	10	10	10	10	10	10	10

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



PRODUCT NUMBER
70233-XYX
70233-XYLF

NOTES:

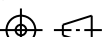
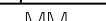
- FOR DIM A AND B SEE SHEET 2 AND UP.
- BODY MATERIAL: LIQUID CRYSTAL
POLYMER 30 % GLASS.
FLAME RETARDANT ACC. UL 94-V0.
- PIN MATERIAL:
PHOSPHOR BRONZE.
- PLATING ON PRESS-FIT TAIL:
55422 -XYX IS SnPb
55422-XYLF IS SN (LEAD FREE)
PLATING ON CONTACT AREA CONFORMS TO PERFORMANCE
LEVEL SHOWN IN TABLE.
- 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.
- 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.)-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: 70233-X01LF

PLATING IN CONTACT AREA		
DASH NUMBER	PERFORMANCE LEVEL	NOTES
-AYY	TELCORDIA CO	SEE NOTE 9
-N1YY	TELCORDIA CO (NXT)	-
-N5YY	TELCORDIA UE (NXT)	-
-1YY	TELCORDIA CO	-
-2YY	TELECOM CLASS	-
-3YY	IEC CLASS I	-
-5YY	TELCORDIA UE	-
-AYYLF	TELCORDIA CO	SEE NOTE 10
-N1YYLF	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

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