

Tous droits strictement reserves. Reproduction ou communication a des tiers interdite sous quelque forme que ce soit sans autorisation ecrite du proprietaire. Propriete de c FCI. Droits de reproduction FCI.

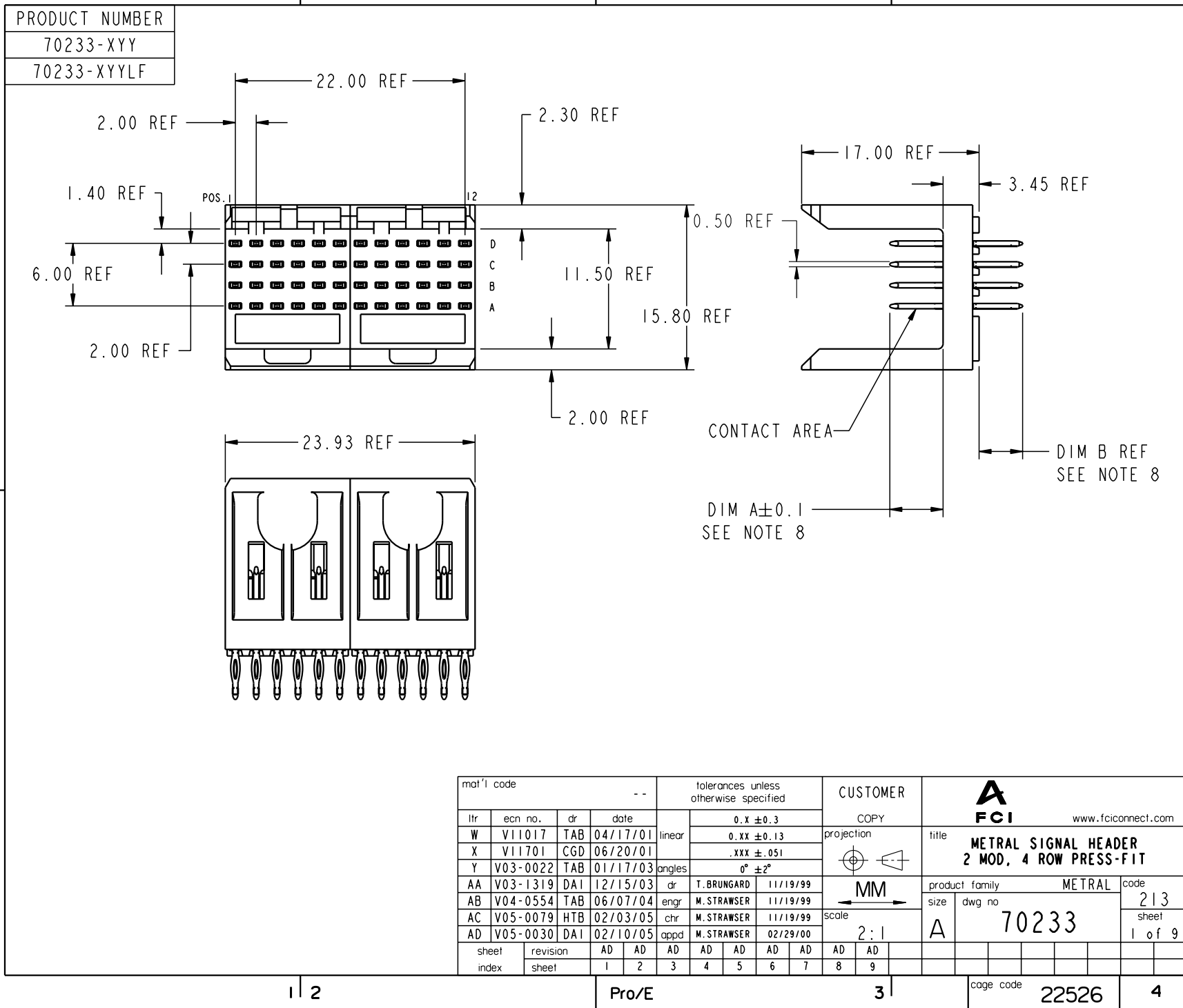
**A**  
**FCI**

All rights strictly reserved. Reproduction or issue to third parties in any form whatever is not permitted without written authority from the proprietor. Property of FCI. Copyright FCI.

**A**

**FCI**

**B**



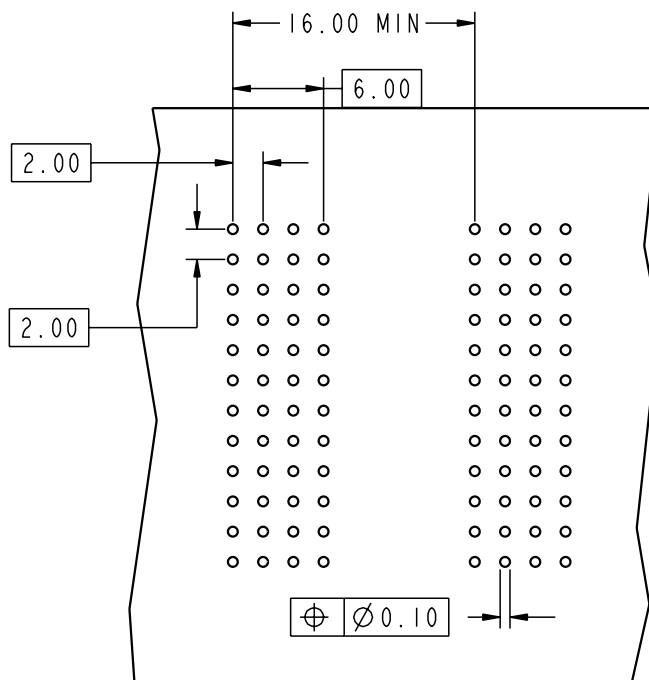
**A**

**B**

**PDM: Rev:AD**

**STATUS:Released**

Printed: Jun 28, 2005



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		<div><div>A</div><div>FCI</div><div>www.fciconnect.com</div></div>		
lfr	ecr no.	dr	date	linear	0. X ±0.3		COPY			title METRAL SIGNAL HEADER 2 MOD, 4 ROW PRESS-FIT		
AD					0. XX ±0.13		projection					
					.XXX ±.051							
				angles	0° ±2°							
		dr			T.BRUNGARD	11/19/99			product family		METRAL	code
		enr			M.STRAWSE	11/19/99			size	dwg no	213	
		chr			M.STRAWSE	11/19/99					sheet	
		appd			M.STRAWSE	02/29/00	1 : 1		A	70233	2	
sheet	revision											
index	sheet											

Pro/E

cage code 22526

PDM: Rev:AD

STATUS:Released

Printed: Jun 28, 2005

Tous droits strictement reserves. Reproduction ou communication a des tiers interdite sous quelque forme que ce soit sans autorisation ecrite du proprietaire. Propriete de c FCI. Droits de reproduction FCI.

All rights strictly reserved. Reproduction or issue to third parties in any form whatever is not permitted without written authority from the proprietor. Property of FCI. Copyright FCI.

**A**

**A**

**FCI**

**B**

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-X11 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	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-X12 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	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-X13 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	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-X14 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	4	4	4	4	4	4	4	4	4	4

1 | 2

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-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-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-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-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

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-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-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-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-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

4

**A**

**B**

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

1 | 2

Pro/E

3 |

cage code 22526

4

PDM: Rev:AD

STATUS:Released

Printed: Jun 28, 2005

**A**

**A**

**FCI**

**B**

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
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
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
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
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

1 | 2

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
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
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
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
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


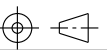
3 |

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
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
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
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
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

4

**A**

**B**

mat'l code				tolerances unless otherwise specified		CUSTOMER		 <a href="http://www.fciconnect.com">www.fciconnect.com</a>	
lfr	ecr no.	dr	date	linear	0.X ± 0.3	projection		title	
AD					0.XX ± 0.13			METRAL SIGNAL HEADER	
					.XXX ± 0.051			2 MOD. 4 ROW PRESS-FIT	
				angles	0° ± 2°			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		sheet	
sheet index		revision sheet						4	

1 | 2

Pro/E

3 |

cage code 22526

4

Tous droits strictement reserves. Reproduction ou communication a des tiers interdite sous quelque forme que ce soit sans autorisation ecrite du proprietaire. Propriete de c FCI. Droits de reproduction FCI.

All rights strictly reserved. Reproduction or issue to third parties in any form whatever is not permitted without written authority from the proprietor. Property of FCI. Copyright FCI.

**A**

**A**

**FCI**

**B**

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
70233-X41 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	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
	C	1	1	1	1	1	1	1	1	1	1
	B	1	1	1	1	1	1	1	1	1	1
	A	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
	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
70233-X44 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	4	4	4	4	4	4	4	4	4	4
	A	3	3	3	3	3	3	3	3	3	3

1 | 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
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
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
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
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

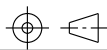

3 |

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
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
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
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
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

4

**A**

**B**

mat'l code				--		tolerances unless otherwise specified		CUSTOMER		<b>A</b> <b>FCI</b> www.fciconnect.com	
lfr	ecr no.	dr	date	linear	0.X ±0.3		COPY			title	
AD					0.XX ±0.13		projection			METRAL SIGNAL HEADER	
					.XXX ±.051					2 MOD. 4 ROW PRESS-FIT	
					0° ±2°						
				dr	T.BRUNGARD	11/19/99		product family		METRAL	code
				enrg	M.STRAWSE	11/19/99		size		dwg no	213
				chr	M.STRAWSE	11/19/99		A		70233	sheet
				appd	M.STRAWSE	02/29/00					5
sheet		revision									
index		sheet									

1 | 2

Pro/E

3 |

cage code 22526

4

PDM: Rev:AD

STATUS:Released

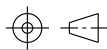
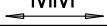
Printed: Jun 28, 2005

**FCI**

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		<b>FCI</b> www.fciconnect.com	
lfr	ecr no.	dr	date	linear	0.X ±0.3		COPY		projection	title	
AD					0.XX ±0.13					METRAL SIGNAL HEADER	
					.XXX ±.051					2 MOD. 4 ROW PRESS-FIT	
				angles	0° ±2°				 <b>MM</b>  1 : 1	product family	
				dr	T.BRUNGARD 11/19/99					METRAL	
				enrg	M.STRAWSER 11/19/99					code	
				chr	M.STRAWSER 11/19/99				size		
				appd	M.STRAWSER 02/29/00				dwg no		
sheet		revision								213	
index		sheet								sheet	
										6	

Pro/E

cage code 22526

PDM: Rev:AD

STATUS:Released

Printed: Jun 28, 2005

**A**  
**FCI**

**A**

**B**

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

1 | 2

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

3 |

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

4

**A**

**B**

mat'l code				--		tolerances unless otherwise specified		CUSTOMER		<b>A</b> <b>FCI</b> www.fciconnect.com	
lfr	ecr no.	dr	date	linear	0.X ±0.3		COPY		projection	title	
AD					0.XX ±0.13					METRAL SIGNAL HEADER	
					.XXX ±.051					2 MOD. 4 ROW PRESS-FIT	
				angles	0° ±2°					product family	
				dr	T.BRUNGARD 11/19/99					METRAL	
				enrg	M.STRAWSER 11/19/99					code	
				chr	M.STRAWSER 11/19/99				MM ←→ scale 1:1	size	
				appd	M.STRAWSER 02/29/00					dwg no	
										70233	
sheet index		revision sheet								213 sheet 7	
										cage code 22526	

1 | 2

Pro/E

3 |

4

Tous droits strictement reserves. Reproduction ou communication a des tiers interdite sous quelque forme que ce soit sans autorisation ecrite du proprietaire. Propriete de c FCI. Droits de reproduction FCI.

All rights strictly reserved. Reproduction or issue to third parties in any form whatever is not permitted without written authority from the proprietor. Property of FCI. Copyright FCI.

**A**

**A**

**FCI**

**B**

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

1 | 2

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

3 |

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

4

**A**

**B**

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

1 | 2

Pro/E

3 |

cage code 22526

4

PDM: Rev:AD

STATUS:Released

Printed: Jun 28, 2005



A  
FCI

A

B

PRODUCT NUMBER
70233-XYX
70233-XYXLF

NOTES:


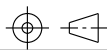

- FOR DIM A AND B SEE SHEET 2 AND UP.
- BODY MATERIAL: LIQUID CRYSTAL  
POLYMER 30 % GLASS.  
FLAME RETARDANT ACC. UL 94-V0.
- PIN MATERIAL:  
PHOSPHOR BRONZE.
- PLATING ON PRESS-FIT TAIL:  
55422 -XYX IS SnPb  
55422-XYXLF IS SN (LEAD FREE)  
PLATING ON CONTACT AREA CONFORMS TO PERFORMANCE  
LEVEL SHOWN IN TABLE.
- PRODUCT MARKING:  
PART NUMBER DESIGNATION & BATCH I.D.
- ALL PRODUCTS WITH PART NUMBERS SHOWN IN  
SUBSEQUENT TABLES WILL BE PACKAGED IN TUBES.  
IF TRAY PACKAGING IS REQUIRED, A SUFFIX "P"  
WILL BE ADDED TO THE END OF THE PART NUMBER.  
EXAMPLE: XXXXX-XXXP OR XXXXX-XXXPLF

- PRODUCT SPECIFICATION GS-12-180  
APPLICATION SPECIFICATION BUS-20-073

- AFTER INSERTION INTO CIRCUIT BOARD WITH  
QUALIFIED TOOL.
- 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		 www.fciconnect.com		
lfr	ecn no.	dr	date	linear	0.X ±0.3		COPY		title <b>METRAL SIGNAL HEADER 2 MOD, 4 ROW PRESS-FIT</b>			
AD					0.XX ±0.13		projection					
					.XXX ±.051							
				angles	0° ±2°				product family METRAL code 213 size 9			
				dr	T.BRUNGARD	11/19/99	MM					
				enrg	M.STRAWSE	11/19/99	scale					
				chr	M.STRAWSE	11/19/99	1:1		A 70233			
				appd	M.STRAWSE	02/29/00						
sheet index		revision sheet								cage code 22526		

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

A

B

Pro/E

3

cage code  
22526

4

PDM: Rev:AD

STATUS:Released

Printed: Jun 28, 2005