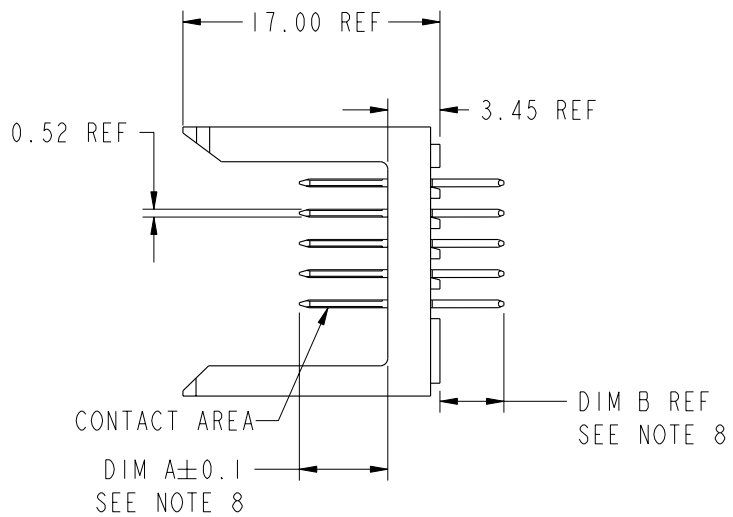
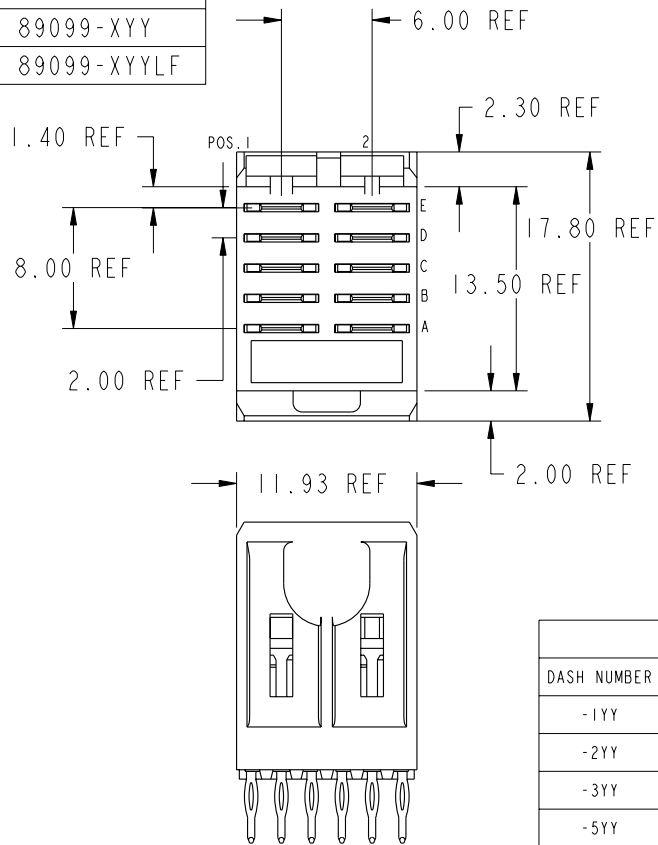


PRODUCT NUMBER
89099-XYX
89099-XYXLF



PLATING IN CONTACT AREA

DASH NUMBER	PERFORMANCE LEVEL	NOTES
-1YY	TELCORDIA CO	-
-2YY	TELECOM CLASS	-
-3YY	IEC CLASS 1	-
-5YY	TELCORDIA UE	-
-9YY	TELCORDIA CO	-
-1YYLF	TELCORDIA CO IEC CLASS 1	SEE NOTE 9
-2YYLF	TELECOM CLASS	SEE NOTE 9
-5YYLF	TELCORDIA UE	SEE NOTE 9

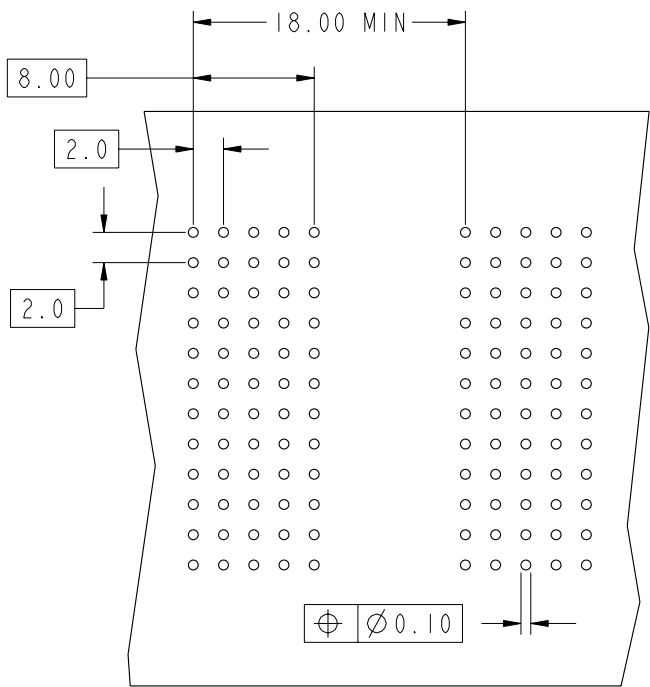
mat'l code				tolerances unless otherwise specified				CUSTOMER		FCI www.fciconnect.com	
ltr	ecr no.	dr	date	linear	0.X ±0.3			COPY		projection	title METRAL POWER HEADER 1 MOD, 5 ROW PRESS-FIT
AN	V06-0493	DAI	2006-05-24		0.XX ±0.13			MM			
AP	V06-0513	DAI	V06-0513		.XXX ±0.051			2:1			
-	-	-	-	angles	0° ±2°			scale		product family	code
AJ	V05-0047	TAB	01/17/05	dr	T.BRUNGARD	11/19/99	A		size	213	
AK	V05-0395	DAI	04/26/05	engr	M.STRAWSER	11/19/99	A		dwg no	1 of 6	
AL	V05-0445	DAI	05/12/05	chr	M.STRAWSER	11/19/99	A		89099		
AM	V05-0859	DAI	09/09/05	appd	M.STRAWSER	02/29/00	A				
sheet index	revision sheet	AP 1	AP 2	AP 3	AP 4	AP 5	AP 6	cage code		22526	

This document is the property of and embodies CONFIDENTIAL and PROPRIETARY information of FCI. No part of the information shown on this document may be used in any way or disclosed to others without the written consent of FCI. Copyright FCI.

1 | 2

3 |

4



KEY		
CODE	DIMENSIONS	
	DIM "A" MATE	DIM "B" TAIL
P01	6.50	4.30
P02	7.25	4.30
P03	8.00	4.30
P04	6.50	13.60
P05	7.25	13.60
P06	8.00	13.60
P07	6.50	17.00
P08	7.25	17.00
P09	8.00	17.00
P16	5.00	4.30
P17	5.75	4.30

REQUIRED PC BOARD LAYOUT
COMPONENT SIDE

SEE PRINT 58351 FOR ADDITIONAL
PCB INFORMATION.



This document is the property of and embodies
CONFIDENTIAL and PROPRIETARY information of FCI.
No part of the information shown on this
document may be used in any way or disclosed
to others without the written consent of FCI.
Copyright FCI.

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 METRAL POWER HEADER 1 MOD, 5 ROW PRESS-FIT
AP					0.XX ±0.13	⊕			
					.XXX ±.051	0° ±2°			
				angles	dr	T.BRUNGARD	11/19/99	product family METRAL code	
					enr	M.STRAWSER	11/19/99	size	dwg no
					chr	M.STRAWSER	11/19/99	213	
					appd	M.STRAWSER	02/29/00	sheet	
sheet index		revision sheet						2	



scale 2:1

product family METRAL code
size dwg no
A 89099 213
sheet 2

1 | 2

Pro/E

3 |

cage code 22526

4

This document is the property of and embodies CONFIDENTIAL and PROPRIETARY information of FCJ. No part of the information shown on this document may be used in any way or disclosed to others without the written consent of FCJ. Copyright FCJ.



1 2				3				4											
METRAL P/N	ROW	CONTACT CODE MOD. 1		METRAL P/N	ROW	CONTACT CODE MOD. 1		METRAL P/N	ROW	CONTACT CODE MOD. 1		METRAL P/N	ROW	CONTACT CODE MOD. 1					
		1	2			1	2			1	2			1	2				
89099-X01 SEE NOTE 10 LEAD FREE OPTION	E	P16	P16	89099-X05 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01	89099-X11 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01	89099-X15 SEE NOTE 10 LEAD FREE OPTION	E	P02	P02				
	D	P16	P16		D	P01	P01		D	P02	P02		D	P04	P04				
	C	P16	P16		C	P02	P02		C	P01	P01		C	P05	P05				
	B	P16	P16		B	P03	P03		B	P01	P01		B	P06	P06				
	A	P16	P16		A	P03	P03		A	P01	P01		A	P05	P05				
89099-X02 SEE NOTE 10 LEAD FREE OPTION	E	P16	P16	89099-X06 SEE NOTE 10 LEAD FREE OPTION	E	P17	P17	89099-X12 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01	89099-X16 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01	89099-X21 SEE NOTE 10 LEAD FREE OPTION	E	P04	P04
	D	P16	P16		D	P17	P17		D	P01	P01		D	P04	P04				
	C	P16	P16		C	P17	P17		C	P02	P02		C	P04	P04				
	B	P16	P16		B	P17	P17		B	P02	P02		B	P04	P04				
	A	P01	P01		A	P17	P17		A	P03	P03		A	P04	P04				
89099-X03 SEE NOTE 10 LEAD FREE OPTION	E	P17	P17	89099-X07 SEE NOTE 10 LEAD FREE OPTION	E	P02	P02	89099-X13 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01	89099-X17 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01	89099-X22 SEE NOTE 10 LEAD FREE OPTION	E	P04	P04
	D	P01	P01		D	P02	P02		D	P01	P01		D	P04	P04				
	C	P17	P17		C	P02	P02		C	P02	P02		C	P04	P04				
	B	P17	P17		B	P02	P02		B	P03	P03		B	P06	P06				
	A	P01	P01		A	P02	P02		A	P03	P03		A	P04	P04				
89099-X04 SEE NOTE 10 LEAD FREE OPTION	E	P17	P17	89099-X10 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01	89099-X14 SEE NOTE 10 LEAD FREE OPTION	E	P03	P03	89099-X18 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01	89099-X23 SEE NOTE 10 LEAD FREE OPTION	E	P04	P04
	D	P17	P17		D	P01	P01		D	P03	P03		D	P01	P01		D	P04	P04
	C	P17	P17		C	P02	P02		C	P03	P03		C	P03	P03		C	P05	P05
	B	P02	P02		B	P03	P03		B	P03	P03		B	P03	P03		B	P06	P06
	A	P17	P17		A	P02	P02		A	P03	P03		A	P03	P03		A	P06	P06

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			
AP					0.XX ±0.13	MM			METRAL POWER HEADER			
					.XXX ±.051	←			1 MOD, 5 ROW PRESS-FIT			
				angles	0° ±2°	scale		product family		code		
				dr	T.BRUNGARD	11/19/99	2:1		METRAL		213	
				engr	M.STRAWSER	11/19/99	A		size		sheet	
				chr	M.STRAWSER	11/19/99			89099		3	
				appd	M.STRAWSER	02/29/00			cage code		22526	
sheet index		revision sheet										

This document is the property of and embodies CONFIDENTIAL and PROPRIETARY information of FCJ. No part of the information shown on this document may be used in any way or disclosed to others without the written consent of FCJ. Copyright FCJ.



1 2				3				4																	
METRAL P/N	ROW	CONTACT CODE MOD. I		METRAL P/N	ROW	CONTACT CODE MOD. I		METRAL P/N	ROW	CONTACT CODE MOD. I		METRAL P/N	ROW	CONTACT CODE MOD. I											
		1	2			1	2			1	2			1	2										
89099-X24 SEE NOTE 10 LEAD FREE OPTION	E	P06	P06	89099-X28 SEE NOTE 10 LEAD FREE OPTION	E	P04	P04	89099-X33 SEE NOTE 10 LEAD FREE OPTION	E	P07	P07	89099-X37 SEE NOTE 10 LEAD FREE OPTION	E	P07	P07	89099-X41 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01						
	D	P06	P06		D	P04	P04		D	P07	P07		D	P07	P07		D	P03	P03	D	P03	P03			
	C	P06	P06		C	P06	P06		C	P08	P08		C	P07	P07		C	P07	P07	C	P03	P03	C	P03	P03
	B	P06	P06		B	P06	P06		B	P09	P09		B	P07	P07		B	P07	P07	B	P03	P03	B	P03	P03
	A	P06	P06		A	P06	P06		A	P09	P09		A	P09	P09		A	P09	P09	A	P02	P02	A	P02	P02
89099-X25 SEE NOTE 10 LEAD FREE OPTION	E	P05	P05	89099-X30 SEE NOTE 10 LEAD FREE OPTION	E	P07	P07	89099-X34 SEE NOTE 10 LEAD FREE OPTION	E	P09	P09	89099-X38 SEE NOTE 10 LEAD FREE OPTION	E	P07	P07	89099-X42 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01						
	D	P05	P05		D	P07	P07		D	P09	P09		D	P07	P07		D	P02	P02	D	P02	P02			
	C	P05	P05		C	P08	P08		C	P09	P09		C	P09	P09		C	P02	P02	C	P02	P02			
	B	P05	P05		B	P09	P09		B	P09	P09		B	P09	P09		B	P02	P02	B	P02	P02			
	A	P05	P05		A	P08	P08		A	P09	P09		A	P09	P09		A	P01	P01	A	P01	P01			
89099-X26 SEE NOTE 10 LEAD FREE OPTION	E	P04	P04	89099-X31 SEE NOTE 10 LEAD FREE OPTION	E	P07	P07	89099-X35 SEE NOTE 10 LEAD FREE OPTION	E	P08	P08	89099-X39 SEE NOTE 10 LEAD FREE OPTION	E	P03	P03	89099-X43 SEE NOTE 10 LEAD FREE OPTION	E	P03	P03						
	D	P04	P04		D	P07	P07		D	P08	P08		D	P01	P01		D	P03	P03	D	P03	P03			
	C	P05	P05		C	P07	P07		C	P08	P08		C	P01	P01		C	P03	P03	C	P03	P03			
	B	P05	P05		B	P07	P07		B	P08	P08		B	P01	P01		B	P02	P02	B	P02	P02			
	A	P06	P06		A	P07	P07		A	P08	P08		A	P01	P01		A	P02	P02	A	P02	P02			
89099-X27 SEE NOTE 10 LEAD FREE OPTION	E	P04	P04	89099-X32 SEE NOTE 10 LEAD FREE OPTION	E	P07	P07	89099-X36 SEE NOTE 10 LEAD FREE OPTION	E	P07	P07	89099-X40 SEE NOTE 10 LEAD FREE OPTION	E	P02	P02	89099-X44 SEE NOTE 10 LEAD FREE OPTION	E	P03	P03						
	D	P04	P04		D	P07	P07		D	P07	P07		D	P01	P01		D	P03	P03	D	P03	P03			
	C	P04	P04		C	P07	P07		C	P08	P08		C	P02	P02		C	P03	P03	C	P03	P03			
	B	P04	P04		B	P09	P09		B	P08	P08		B	P01	P01		B	P16	P16	B	P16	P16			
	A	P06	P06		A	P07	P07		A	P09	P09		A	P02	P02		A	P03	P03	A	P03	P03			

mat'l code				tolerances unless otherwise specified				CUSTOMER				FCJ www.fcjconnect.com						
ltr	ecn no.	dr	date	linear	0.X ±0.3				COPY				title METRAL POWER HEADER 1 MOD, 5 ROW PRESS-FIT					
AP					0.XX ±0.13				projection									
					.XXX ±.051													
				angles	0° ±2°								product family METRAL					
				dr	T.BRUNGARD	11/19/99	scale 2:1				code 213							
				engr	M.STRAWSER	11/19/99					size A				dwg no 89099			
				chr	M.STRAWSER	11/19/99					sheet 4							
				appd	M.STRAWSER	02/29/00												
sheet index		revision sheet										cage code 22526						

B

B

This document is the property of and embodies CONFIDENTIAL and PROPRIETARY information of FCJ. No part of the information shown on this document may be used in any way or disclosed to others without the written consent of FCJ. Copyright FCJ.



1 2				3				4											
METRAL P/N	ROW	CONTACT CODE MOD. I		METRAL P/N	ROW	CONTACT CODE MOD. I		METRAL P/N	ROW	CONTACT CODE MOD. I		METRAL P/N	ROW	CONTACT CODE MOD. I					
		1	2			1	2			1	2			1	2				
89099-X45 SEE NOTE 10 LEAD FREE OPTION	E	P03	P03	89099-X49 SEE NOTE 10 LEAD FREE OPTION	E	P02	P02	89099-X53 SEE NOTE 10 LEAD FREE OPTION	E	P05	P05	89099-X57 SEE NOTE 10 LEAD FREE OPTION	E	P03	P03				
	D	P02	P02		D	P03	P03		D	P05	P05		D	P01	P01	D	P03	P03	
	C	P17	P17		C	P03	P03		C	P06	P06		C	P01	P01	C	P02	P02	
	B	P17	P17		B	P03	P03		B	P04	P04		B	P01	P01	B	P01	P01	
	A	P17	P17		A	P02	P02		A	P04	P04		A	P03	P03	A	P01	P01	
89099-X46 SEE NOTE 10 LEAD FREE OPTION	E	P03	P03	89099-X50 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01	89099-X54 SEE NOTE 10 LEAD FREE OPTION	E	P02	P02	89099-X58 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01	89099-X62 SEE NOTE 10 LEAD FREE OPTION	E	P06	P06
	D	P03	P03		D	P01	P01		D	P02	P02		D	P03	P03		D	P05	P05
	C	P01	P01		C	P03	P03		C	P03	P03		C	P01	P01		C	P05	P05
	B	P03	P03		B	P01	P01		B	P01	P01		B	P03	P03		B	P06	P06
	A	P01	P01		A	P01	P01		A	P01	P01		A	P01	P01		A	P05	P05
89099-X47 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01	89099-X51 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01	89099-X55 SEE NOTE 10 LEAD FREE OPTION	E	P02	P02	89099-X59 SEE NOTE 10 LEAD FREE OPTION	E	P16	P16	89099-X63 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01
	D	P01	P01		D	P01	P01		D	P02	P02		D	P03	P03		D	P02	P02
	C	P02	P02		C	P16	P16		C	P02	P02		C	P03	P03		C	P01	P01
	B	P03	P03		B	P01	P01		B	P03	P03		B	P03	P03		B	P02	P02
	A	P02	P02		A	P01	P01		A	P03	P03		A	P03	P03		A	P03	P03
89099-X48 SEE NOTE 10 LEAD FREE OPTION	E	P04	P04	89099-X52 SEE NOTE 10 LEAD FREE OPTION	E	P03	P03	89099-X56 SEE NOTE 10 LEAD FREE OPTION	E	P05	P05	89099-X60 SEE NOTE 10 LEAD FREE OPTION	E	P01	P01	89099-X64 SEE NOTE 10 LEAD FREE OPTION	E	P02	P02
	D	P04	P04		D	P02	P02		D	P05	P05		D	P01	P01		D	P02	P02
	C	P06	P06		C	P03	P03		C	P05	P05		C	P03	P03		C	P01	P01
	B	P04	P04		B	P03	P03		B	P05	P05		B	P03	P03		B	P03	P03
	A	P04	P04		A	P03	P03		A	P04	P04		A	P01	P01		A	P01	P01
89099-X65 SEE NOTE 10 LEAD FREE OPTION	E	P17	P17																
	D	P03	P03																
	C	P03	P03																
	B	P03	P03																
	A	P03	P03																

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		METRAL POWER HEADER	
AP				angles	0.XX ±0.13					1 MOD, 5 ROW PRESS-FIT			
					.XXX ±.051					product family		METRAL	
				dr	0° ±2"			scale		size		213	
				engr	T.BRUNGARD 11/19/99			2:1		dwg no		5	
				chr	M.STRAWSER 11/19/99					A		89099	
				appd	M.STRAWSER 02/29/00								
sheet index	revision sheet												

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X66	E	P17	P17
	D	P17	P17
-----	C	P02	P02
89099-X66LF	B	P02	P02
	A	P17	P17

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X67	E	P01	P01
	D	P02	P02
-----	C	P02	P02
89099-X67LF	B	P03	P03
	A	P03	P03

METRAL P/N	ROW	CONTACT CODE MOD. I	
		1	2
89099-X68	E	P01	P01
	D	P02	P02
-----	C	P02	P02
89099-X68LF	B	P02	P02
	A	P03	P03

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:
89099 -XXX IS SnPb
89099-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-20-075
- 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.
- FOR LEAD FREE PART NUMBERS, ADD AN "LF" SUFFIX. EXAMPLE: 89099-X01LF
- ALL PRODUCTS WILL WITHSTAND EXPOSURE TO 260°C FOR 60 SECONDS IN CONVECTION, INFRARED OR VAPOR PHASE REFLOW OVEN.



This document is the property of and embodies CONFIDENTIAL and PROPRIETARY information of FCI. No part of the information shown on this document may be used in any way or disclosed to others without the written consent of FCI. Copyright FCI.

mat'l code				tolerances unless otherwise specified		CUSTOMER		FCI www.fciconnect.com	
ltr	ecn no.	dr	date	linear	0.X ±0.3	COPY		projection	title METRAL POWER HEADER 1 MOD, 5 ROW PRESS-FIT
AP					0.XX ±0.13	MM			
					.XXX ±.051	scale			
				angles	0° ±2°	A		product family METRAL code	
		dr	T.BRUNGARD	11/19/99	size		dwg no		213
		engr	M.STRAWSER	11/19/99	A		89099		sheet
		chr	M.STRAWSER	11/19/99	1:1				6
		appd	M.STRAWSER	02/29/00					
sheet index	revision sheet								