



- NOTES:
- FOR DIM A AND B SEE SHEET 2 AND UP.
 - MATERIAL : BODY : THERMOPLASTIC UL94-V0.
: CONTACT : COPPER ALLOY.
 - FOR PLATING PERFORMANCE REFER DRAWING # 10159408.
 - 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-XXXPLF
 - PRODUCT SPECIFICATION: GS-12-180
 - APPLICATION SPECIFICATION: BUS-20-073
 - AFTER INSERTION INTO BOARD WITH QUALIFIED TOOLING.
 - THE PRODUCTS MEET THE EUROPEAN UNION DIRECTIVE AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004.
 - ALL THE PRODUCTS WILL WITHSTAND EXPOSURE TO 260°C FOR 60 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN. THE 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.
 - A Δ SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT REVISION.

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

spec ref	*	dr	Terran Huang	2010/07/09	projection 	MM 	size	A4	scale	21:10
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Rahul Mohan-M	2021/07/13			ecn no	ELX-I-41566-1		
ISO 406 ISO 1101		chr	-	-			rel level	Released		
surface	3.200	appr	Kuriakose, San	2021/08/25	product family	METRAL				
ISO 1302	linear				product name	METRAL SIGNAL HEADER	rev			
					part no	2 MOD , 4 ROW PRESS-FIT	dwg no	88922	AX	
	angular				cat. no.	-	Product - Customer Drw	sheet 2 of 4		

Creo F114:ELX-FCI:AC,REV F,2020-12-21

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2			
		1	2	3	4	5	6	7	8
88922-X01LF	D	-	2	-	2	-	2	-	2
	C	-	2	-	2	-	2	-	2
	B	-	2	-	2	-	2	-	2
	A	-	2	-	2	-	2	-	2

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2			
		1	2	3	4	5	6	7	8
88922-X06LF	D	6	6	6	20	20	20	6	6
	C	6	6	6	20	20	20	6	6
	B	6	6	6	20	20	20	6	6
	A	6	6	6	20	20	20	6	6

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2			
		1	2	3	4	5	6	7	8
88922-X11LF	D	19	1	1	1	19	1	19	1
	C	3	1	1	1	19	1	19	1
	B	3	1	1	1	19	1	19	1
	A	3	1	1	1	19	1	19	1

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2			
		1	2	3	4	5	6	7	8
88922-X16LF	D	-	2	-	2	-	2	-	2
	C	-	-	-	-	-	-	-	-
	B	-	-	-	-	-	-	-	-
	A	-	2	-	2	-	2	-	2

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2			
		1	2	3	4	5	6	7	8
88922-X02LF	D	-	6	-	6	-	6	-	6
	C	-	6	-	6	-	6	-	6
	B	-	6	-	6	-	6	-	6
	A	-	6	-	6	-	6	-	6

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2			
		1	2	3	4	5	6	7	8
88922-X07LF	D	2	3	2	2	2	2	2	2
	C	2	3	2	2	2	2	2	2
	B	2	3	1	2	2	2	2	2
	A	2	3	2	2	2	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2			
		1	2	3	4	5	6	7	8
88922-X12LF	D	1	1	1	1	1	1	1	3
	C	1	1	1	1	1	1	1	3
	B	1	1	1	1	1	1	1	3
	A	1	1	1	1	1	1	1	3

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2			
		1	2	3	4	5	6	7	8
88922-X17LF	D	-	6	-	6	-	6	-	6
	C	-	-	-	-	-	-	-	-
	B	-	-	-	-	-	-	-	-
	A	-	6	-	6	-	6	-	6

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2			
		1	2	3	4	5	6	7	8
88922-X03LF	D	2	2	2	2	1	1	2	2
	C	2	2	2	2	2	2	2	2
	B	2	2	2	2	2	2	2	2
	A	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
88922-X08LF	D	1	1	1	1	1	1	1	19
	C	1	1	1	1	1	1	1	19
	B	1	1	1	1	1	1	1	19
	A	1	1	1	1	1	1	1	19

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2			
		1	2	3	4	5	6	7	8
88922-X13LF	D	20	-	7	7	7	7	7	7
	C	20	-	7	7	7	7	7	7
	B	20	-	7	7	7	7	7	7
	A	20	-	7	7	7	7	7	7

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2			
		1	2	3	4	5	6	7	8
88922-X18LF	D	1	1	1	4	1	1	3	3
	C	1	1	1	4	1	1	3	3
	B	1	1	1	4	1	1	3	3
	A	1	1	1	4	1	1	3	3

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2			
		1	2	3	4	5	6	7	8
88922-X04LF	D	-	-	2	2	-	2	2	2
	C	2	2	2	2	2	2	2	2
	B	2	2	2	2	2	2	2	2
	A	-	-	-	-	4	4	4	19

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2			
		1	2	3	4	5	6	7	8
88922-X09LF	D	1	3	1	1	1	1	1	1
	C	1	3	1	1	1	1	1	1
	B	1	3	1	1	1	1	1	1
	A	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
88922-X14LF	D	19	3	3	3	3	3	3	3
	C	19	3	3	3	3	3	3	3
	B	19	3	3	3	3	3	3	3
	A	19	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
88922-X19LF	D	1	2	2	2	2	2	2	4
	C	1	2	2	2	2	2	2	4
	B	1	2	2	2	2	2	2	4
	A	1	2	2	2	2	2	2	4

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2			
		1	2	3	4	5	6	7	8
88922-X05LF	D	25	25	25	25	25	25	25	25
	C	25	25	25	25	25	25	25	25
	B	25	25	25	25	25	25	25	25
	A	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
88922-X10LF	D	-	-	6	6	-	6	6	6
	C	6	6	6	6	6	6	6	6
	B	6	6	6	6	6	6	6	6
	A	-	-	-	-	8	8	8	20

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2			
		1	2	3	4	5	6	7	8
88922-X15LF	D	7	5	5	5	5	5	5	5
	C	7	5	5	5	5	5	5	5
	B	7	5	5	5	5	5	5	5
	A	7	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
88922-X20LF	D	21	-	11	-	11	-	11	-
	C	21	-	11	-	11	-	11	-
	B	21	-	11	-	11	-	11	-
	A	21	-	11	-	11	-	11	-

spec ref	*	dr	Terran Huang	2010/07/09	projection		size	A4	scale	1:10
tolerance std	ISO 406 ISO 1101	eng	Rahul Mohan-M	2021/07/13			ecn no	ELX-I-41566-1		
surface	3.200	chr	-	-			rel level	Released		
ISO 1302	linear	appr	Kuriakose, San	2021/08/25	product family	METRAL	rev	88922	AX	
	angular									

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2					
		1	2	3	4	5	6	7	8		
88922-X21LF	D	20	-	7	-	7	-	7	-	-	20
	C	20	-	7	-	7	-	7	-	-	20
	B	20	-	7	-	7	-	7	-	-	20
	A	20	-	7	-	7	-	7	-	-	20

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2					
		1	2	3	4	5	6	7	8		
88922-X26LF	D	19	3	3	3	3	19	3	3	3	19
	C	19	3	3	3	3	19	3	3	3	19
	B	19	3	3	3	3	19	3	3	3	19
	A	19	3	3	3	3	19	3	3	3	19

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2						
		1	2	3	4	5	6	7	8			
88922-X31LF	D	3	3	2	3	3	2	4	4	2	2	2
	C	3	3	2	3	3	2	4	4	2	2	2
	B	3	3	2	3	3	2	4	4	2	2	2
	A	3	3	2	3	3	2	4	4	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2						
		1	2	3	4	5	6	7	8			
88922-X36LF	D	7	7	7	7	6	7	6	7	6	7	7
	C	7	7	7	7	7	7	7	7	7	7	7
	B	7	7	7	7	7	7	7	7	7	7	7
	A	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			
88922-X22LF	D	2	2	2	6	6	6	6	6	2	2	2
	C	2	2	2	6	6	6	6	6	2	2	2
	B	2	2	2	6	6	6	6	6	2	2	2
	A	2	2	2	6	6	6	6	6	2	2	2

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2					
		1	2	3	4	5	6	7	8		
88922-X27LF	D	3	-	3	-	3	-	3	-	3	-
	C	-	3	-	3	-	3	-	3	-	3
	B	3	-	3	-	3	-	3	-	3	-
	A	-	3	-	3	-	3	-	3	-	3

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2						
		1	2	3	4	5	6	7	8			
88922-X32LF	D	-	-	6	6	-	20	6	6	6	6	6
	C	6	6	6	6	6	6	6	6	6	6	6
	B	6	6	6	6	6	6	6	6	6	6	6
	A	-	-	-	-	-	8	8	8	8	20	20

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2					
		1	2	3	4	5	6	7	8		
88922-X37LF	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		
88922-X23LF	D	19	3	3	3	3	19	3	3	3	3
	C	19	3	3	3	3	19	3	3	3	3
	B	19	3	3	3	3	19	3	3	3	3
	A	19	3	3	3	3	19	3	3	3	3

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2					
		1	2	3	4	5	6	7	8		
88922-X28LF	D	19	-	3	-	3	-	3	-	3	-
	C	19	-	3	-	3	-	3	-	3	-
	B	19	-	3	-	3	-	3	-	3	-
	A	19	-	3	-	3	-	3	-	3	-

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2						
		1	2	3	4	5	6	7	8			
88922-X33LF	D	-	-	64	64	-	52	64	64	64	64	64
	C	64	64	64	64	64	64	64	64	64	64	64
	B	64	64	64	64	64	64	64	64	64	64	64
	A	-	-	-	-	-	69	69	69	69	52	52

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2					
		1	2	3	4	5	6	7	8		
88922-X38LF	D	3	3	19	3	3	3	3	3	3	3
	C	3	3	19	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		
88922-X24LF	D	7	-	7	-	7	-	7	-	7	-
	C	-	7	-	7	-	7	-	7	-	7
	B	7	-	7	-	7	-	7	-	7	-
	A	-	7	-	7	-	7	-	7	-	7

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2					
		1	2	3	4	5	6	7	8		
88922-X29LF	D	-	7	-	7	-	7	-	7	-	7
	C	7	-	7	-	7	-	7	-	7	-
	B	-	7	-	7	-	7	-	7	-	7
	A	7	-	7	-	7	-	7	-	7	-

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2						
		1	2	3	4	5	6	7	8			
88922-X34LF	D	7	6	6	6	6	6	6	6	6	5	3
	C	7	6	6	6	6	6	6	6	6	5	3
	B	7	6	6	6	6	6	6	6	6	5	3
	A	7	6	6	6	6	6	6	6	6	5	3

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2					
		1	2	3	4	5	6	7	8		
88922-X25LF	D	3	3	3	3	3	-	3	3	-	19
	C	3	3	3	3	3	-	3	3	-	19
	B	3	3	3	3	3	-	3	3	-	19
	A	3	3	3	3	3	-	3	3	-	19

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2					
		1	2	3	4	5	6	7	8		
88922-X30LF	D	-	17	-	17	-	17	-	17	-	17
	C	17	-	17	-	17	-	17	-	17	-
	B	-	17	-	17	-	17	-	17	-	17
	A	17	-	17	-	17	-	17	-	17	-

METRAL P/N	ROW	CONTACT CODE MOD. 1				MOD. 2					
		1	2	3	4	5	6	7	8		
88922-X35LF	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	19	19	4	4	4	19

spec ref	*	dr	Terran Huang	2010/07/09	projection		size	A4	scale	1:10
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED	eng	Rahul Mohan-M	2021/07/13			ecn no	ELX-I-41566-1		
ISO 406		chr	-	-			rel level	Released		
ISO 1101		appr	Kuriakose, San	2021/08/25	product family	METRAL	rev			
surface 3.200	linear				METRAL SIGNAL HEADER		dwg no	88922	rev	AX
ISO 1302	angular				2 MOD, 4 ROW PRESS-FIT		Product - Customer Drw		sheet 4 of 4	
	0.X	±0.3	amphenol-icc.com			cat. no.	-			
	0.XX	±0.13								
	0.XXX	±0.050								
	0°	±2°								