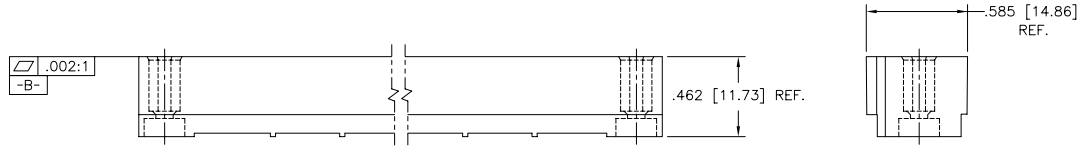
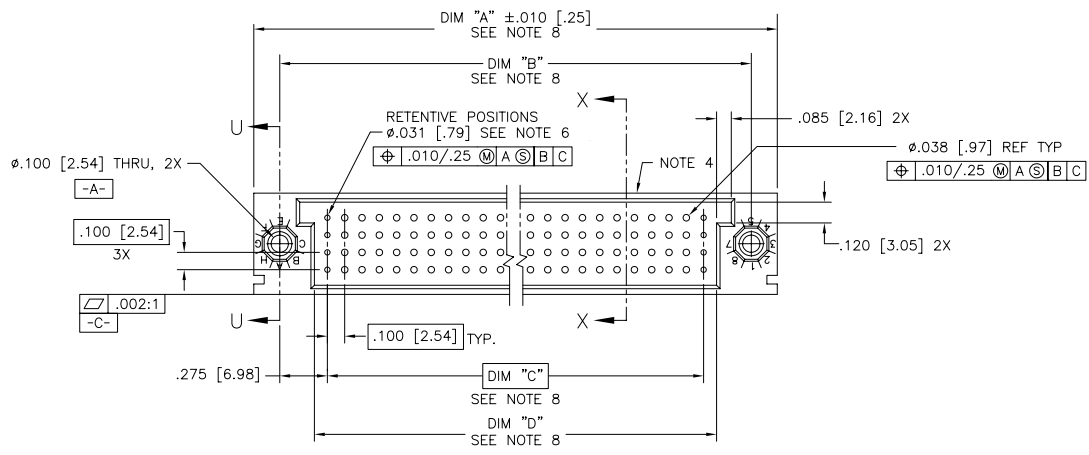


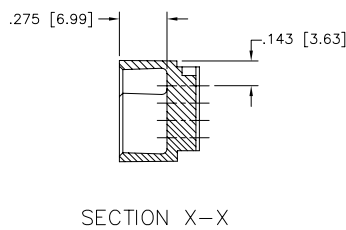
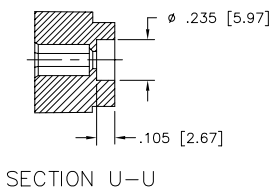
PRODUCT NUMBER
SEE NOTE 1



mat'l. code		surface		tolerance		projection		product family	
NOTE 3		ISO 1302		ISO 406		INCH/MM		HPC	
ISO 1101		tolerances unless otherwise specified		.XX±.01/.3		scale 1:1		title	
ltr	ecn	no	dr	date	angles	linear		VERTICAL SHROUD-RETENTIVE	
E	V41077	GAH		7/6/94				4 ROW W/O GUIDE PINS	
F	V94440	JWS		12/29/99				dwg no	
G	V10135	LSS		01/11/01	0°±2'			sheet 1 of 4	
H	V10917	JRW		2/23/01	dr	D.SHEAFFER	8/7/91	size	
J	V21712	DAI		12/04/02	engr	S.CLARK	10/23/91	A3	
K	V05-0698	DAI		8/18/05	chr	S.CLARK	10/23/91	50431	
L	M06-0260	MHT		7/07/06	appd	S.CLARK	10/23/91	type	
sheet	revision	L	L	L	L			Product Customer Drawing	
index	sheet	1	2	3	4				

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PRODUCT NUMBER
SEE NOTE 1



NOTES:

- ① PRODUCT NUMBERING CODE:
50431-X YYX LF
- LEAD FREE (OPTIONAL)
 - ALWAYS "X"
 - NO. OF POSITIONS (SEE NOTE 2)
 - ALWAYS "X"
 - BASE NUMBER

⑧ LENGTH FORMULAS

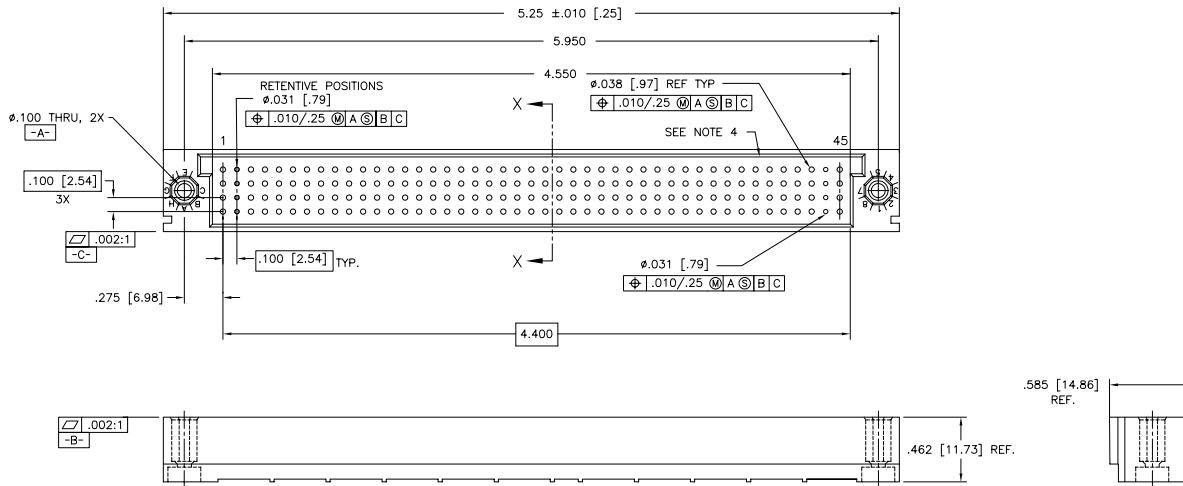
- DIM A = $.100/2.54 \times \text{NO. OF COLUMNS} + .75/19.1$
- DIM B = $.100/2.54 \times \text{NO. OF COLUMNS} + .450/11.43$
- DIM C = $.100/2.54 \times \text{NO. OF COLUMNS} - .100/2.54$
- DIM D = $.100/2.54 \times \text{NO. OF COLUMNS} + .050/1.27$

SEE SHEET 3 FOR 50431-XX001 OR 50431-XX001LF.
SEE SHEET 4 FOR 50431-XX002 OR 50431-XX002LF.

- ② THIS PRODUCT IS CONFIGURED IN SIZES OF 6 THRU 80 COLUMNS IN INCREMENTS OF ONE.
i.e.: 6, 7, 8, 9,.....79, 80.
- ③ MATERIAL: GLASS AND MINERAL FILLED THERMOPLASTIC FLAME RETARDANT PER UL94 V-0. COLOR: BLACK
- ④ MANUFACTURE'S NAME, P/N, AND LOT CODE TO APPEAR ON THIS SURFACE.
- ⑤ THIS SHROUD WILL WITHSTAND EXPOSURE TO 260° C PEAK TEMPERATURE FOR 10-30 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN.
- ⑥ DIMENSION APPLIES TO HOLES AT END COLUMNS OF EACH PIN FIELD.
- ⑦ THIS PRODUCT (WITH "LF" SUFFIX) MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008.

mat'l. code		surface		tolerance		projection		product family	
NOTE 3		ISO 1302		ISO 406		ASME		HPC	
ltr		ecn		no		dr		date	
L									
		tolerances unless otherwise specified		.XX±.01/3		INCH/MM		title	
		angles		.XXX±.005/13		scale 1:1		VERTICAL SHROUD-RETENTIVE	
		linear		XXXX±.0020/.05		FCJ		4 ROW W/O GUIDE PINS	
		dr		D.SHEAFFER		8/7/91		dwg no	
		engr		S.CLARK		10/23/91		sheet 2 of 4 size	
		chr		S.CLARK		10/23/91		50431 A3	
		appd		S.CLARK		10/23/91		type Product Customer Drawing	
sheet index		revision sheet							

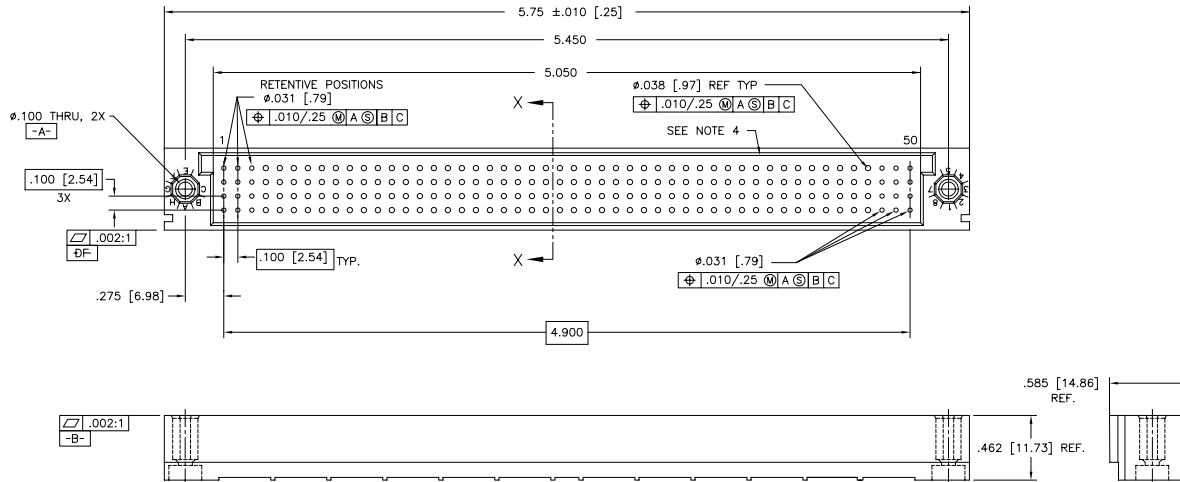
PRODUCT NUMBER	DESCRIPTION	NOTES
50431-XX001	180 POSITION CUSTOM PLACED RETENTION COLUMNS	-
50431-XX001LF	SAME AS 50431-XX001	SEE NOTE 7



mat'l. code	NOTE 3	surface	ISO 1302	tolerance	ISO 406	projection	product family
ltr	ecn	no	dr	date	tolerances unless otherwise specified	INCH/MM	HPC
L					angles	linear	title
					0°±2'	linear	VERTICAL SHROUD-RETENTIVE
					dr	D.SHEAFFER	4 ROW W/O GUIDE PINS
					enrg	S.CLARK	scale 1:1
					chr	S.CLARK	FCJ
					appd	S.CLARK	50431
sheet	revision						type Product Customer Drawing
index	sheet						sheet 3 of 4 size A3

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PRODUCT NUMBER	DESCRIPTION	NOTES
50431-XX002	200 POSITION CUSTOM PLACED RETENTIVE COLUMNS	-
50431-XX002LF	SAME AS 50431-XX002	SEE NOTE 7



mat'l. code	NOTE 3	surface	ISO 1302	tolerance	ISO 406	projection	product family
ltr	ecn	no	dr	date	tolerances unless otherwise specified	INCH/MM	HPC
L					angles	linear	title
					0°±2'	linear	VERTICAL SHROUD-RETENTIVE
					dr	D.SHEAFFER	4 ROW W/O GUIDE PINS
					enrg	S.CLARK	dwg no
					chr	S.CLARK	50431
					appd	S.CLARK	sheet 4 of 4
							size
							A3
sheet	revision						type
index	sheet						Product Customer Drawing

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