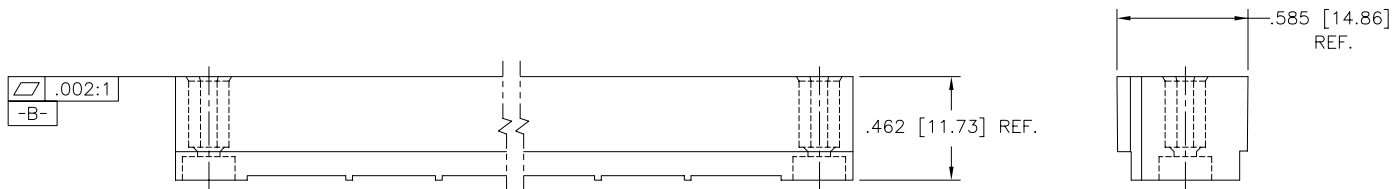
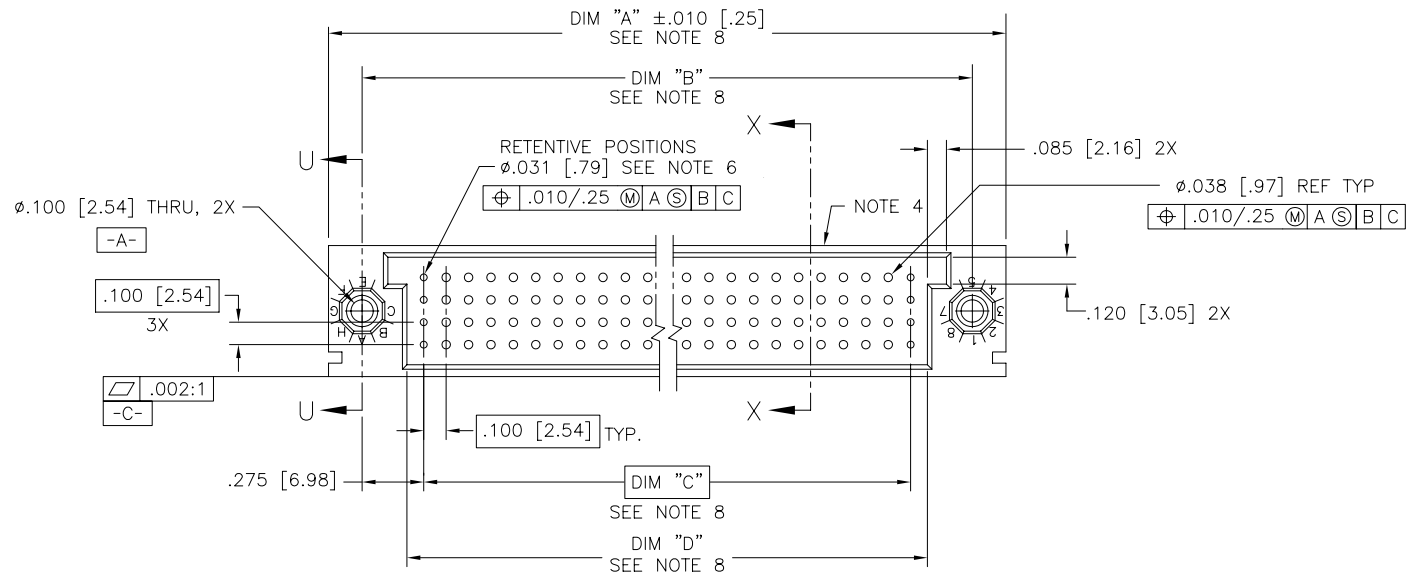


PRODUCT NUMBER  
SEE NOTE 1



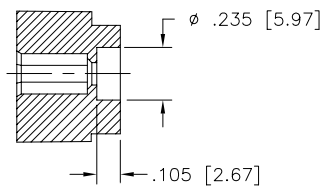
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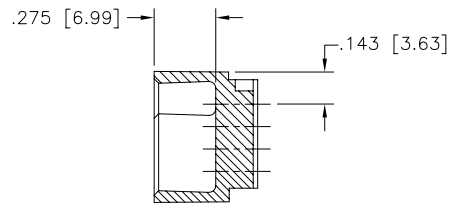
mat'l. code NOTE 3		surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection ⊕		product family HPC	
ltr		ecn no		dr		date		title	
E	V41077	GAH	7/6/94	tolerances unless otherwise specified		.xx±.01/.3		VERTICAL SHROUD-RETENTIVE	
F	V94440	JWS	12/29/99	angles	linear	.xxx±.005/.13		4 ROW W/O GUIDE PINS	
G	V10135	LSS	01/11/01	0'±2'	.xxxx±.0020/.05		scale 1:1		
H	V10917	JRW	2/23/01	dr	D.SHEAFFER	8/7/91		dwg no	
J	V21712	DAI	12/04/02	engr	S.CLARK	10/23/91		sheet 1 of 4 size	
K	V05-0698	DAI	8/18/05	chr	S.CLARK	10/23/91		50431 A3	
L	M06-0260	MHT	7/07/06	appd	S.CLARK	10/23/91		type Product Customer Drawing	
sheet	revision	L	L	L	L				
index	sheet	1	2	3	4				

form: A3

PRODUCT NUMBER  
SEE NOTE 1



SECTION U-U



SECTION X-X

NOTES:

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

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

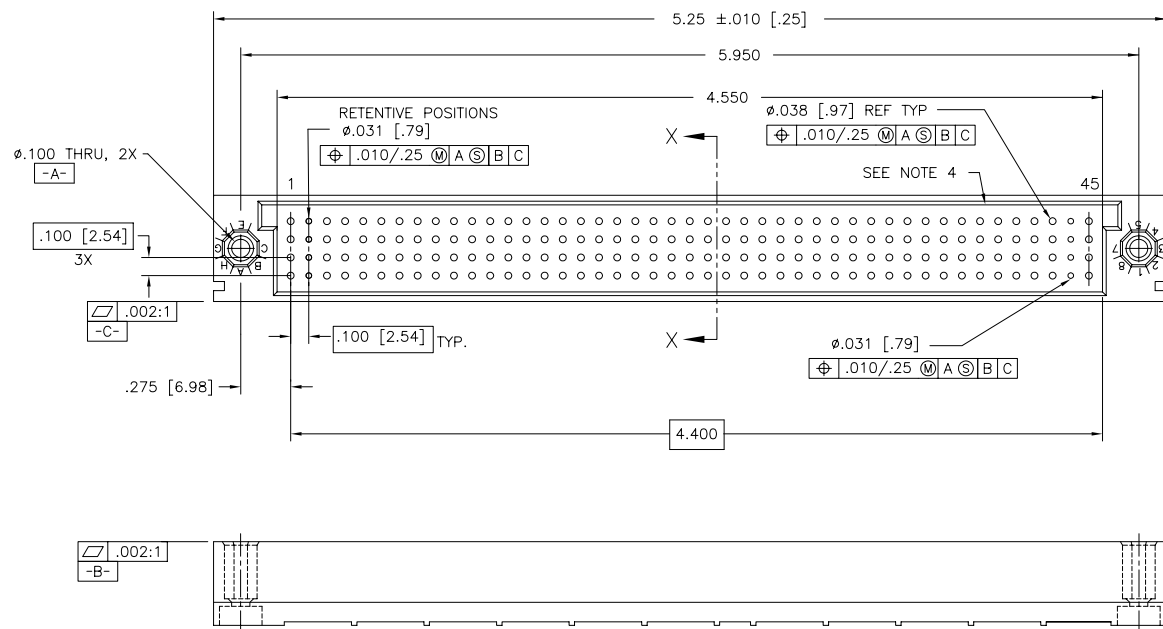
- ② THIS PRODUCT IS CONFIGURED IN SIZES OF 6 THRU 80 COLUMNS IN INCREMENTS OF ONE.  
i.e.: 6, 7, 8, 9,.....79, 80.
- ③ MATERIAL: GLASS AND MINERAL FILLED THERMOPLASTIC FLAME RETARDANT PER UL94 V-0. COLOR: BLACK
- ④ MANUFACTURE'S NAME, P/N, AND LOT CODE TO APPEAR ON THIS SURFACE.
5. THIS SHROUD WILL WITHSTAND 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.

⑧ LENGTH FORMULAS

- DIM A = .100/2.54 x NO. OF COLUMNS + .75/19.1
- DIM B = .100/2.54 x NO. OF COLUMNS + .450/11.43
- DIM C = .100/2.54 x NO. OF COLUMNS - .100/2.54
- DIM D = .100/2.54 x NO. OF COLUMNS + .050/1.27

mat'l. code		surface		tolerance		projection		product family	
NOTE 3		ISO 1302 ✓		ISO 406 ISO 1101				HPC	
ltr	ecn	no	dr	date	tolerances unless otherwise specified		title		
L					angles	.XX±.01/.3	INCH/MM		
					linear	.XXX±.005/.13	VERTICAL SHROUD-RETENTIVE		
					0'±2'	.XXX±.0020/.051	4 ROW W/O GUIDE PINS		
					dr	D.SHEAFFER 8/7/91	scale 1:1		
					enr	S.CLARK 10/23/91	dwg no		
					chr	S.CLARK 10/23/91	sheet 2 of 4 size		
					appd	S.CLARK 10/23/91	50431 A3		
sheet index		revision sheet						type Product Customer Drawing	

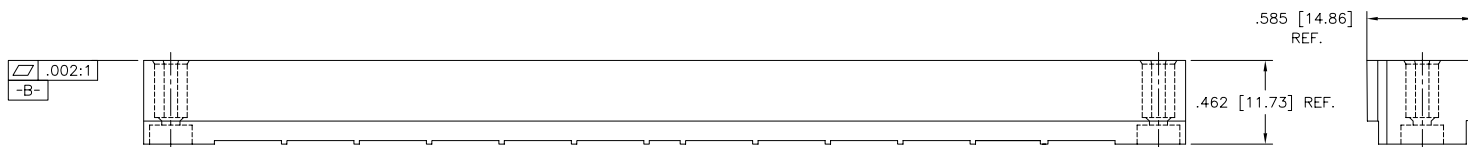
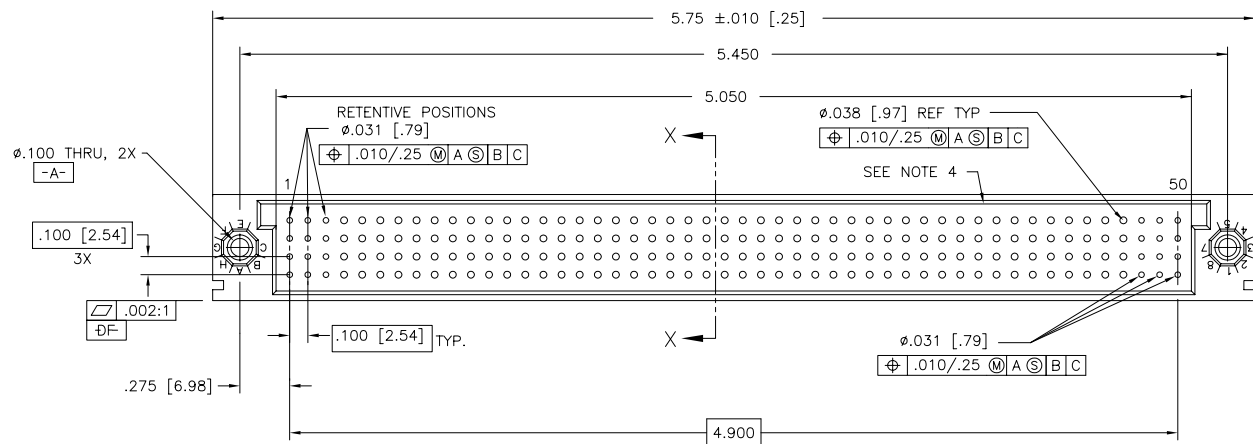
PRODUCT NUMBER	DESCRIPTION	NOTES
50431-XX001	180 POSITION CUSTOM PLACED RETENTION COLUMNS	-
50431-XX001LF	SAME AS 50431-XX001	SEE NOTE 7



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mat'l. code NOTE 3		surface ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection FIRST ANGLE	product family HPC
ltr	ecn	no	dr	date	tolerances unless otherwise specified
L					.xx±.01/.3
					linear .xxx±.005/.13
					0'±2' .xxxx±.0020/.051
			dr	D.SHEAFFER	8/7/91
			enr	S.CLARK	10/23/91
			chr	S.CLARK	10/23/91
			appd	S.CLARK	10/23/91
sheet	revision				
index	sheet				
				scale 1:1	title VERTICAL SHROUD-RETENTIVE 4 ROW W/O GUIDE PINS
				FCI	dwg no 50431
					sheet 3 of 4 size A3
				type	Product Customer Drawing

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



mat'l. code NOTE 3		surface ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection INCH/MM	product family HPC
ltr	ecn	no	dr	date	title
L					VERTICAL SHROUD-RETENTIVE 4 ROW W/O GUIDE PINS
				angles	linear
				0°±2'	.xx±.01/.3 .xxx±.005/.13 .xxxx±.0020/.051
				dr	D.SHEAFFER 8/7/91
				enr	S.CLARK 10/23/91
				chr	S.CLARK 10/23/91
				appd	S.CLARK 10/23/91
sheet index	revision sheet				scale 1:1
					dwg no 50431
					sheet 4 of 4 size A3
					type Product Customer Drawing



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