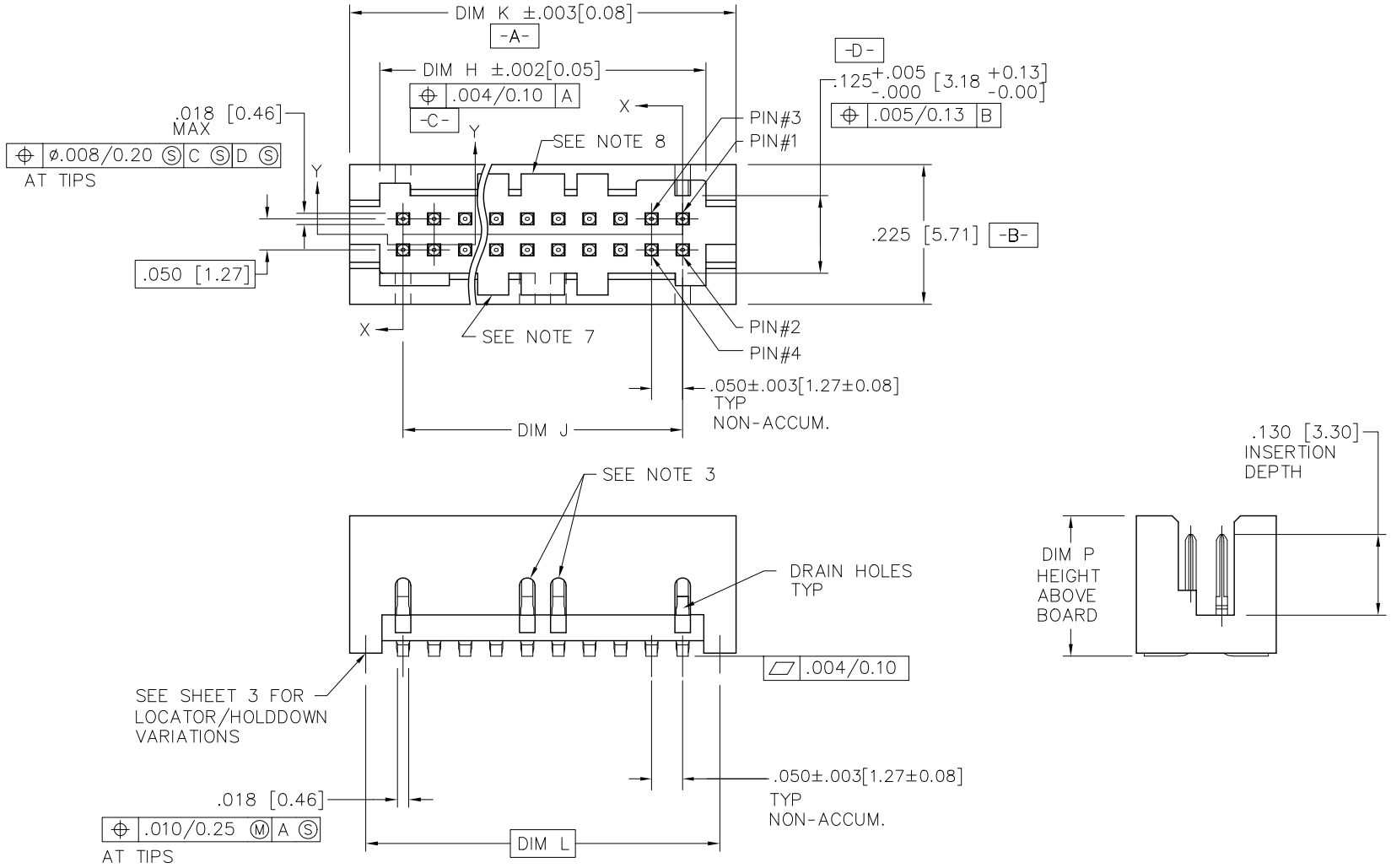


ltr	ecn no	dr	date
AA	M08-0245	MHT	8/27/08
AB	M09-0058	MHT	4/04/09
AC	M09-0087	MHT	06/10/09
AD	N10-0174	YO	6/17/10
AE	ELX-N-004143	YO	06/20/11
AF	ELX-N-004665	YO	07/27/11
AG	ELX-N-009746	YO	1/20/12

mat'l. code: –

surface ISO 1302 ✓ | tolerance ISO 406 ISO 1101

tolerances unless otherwise specified: angles ±2° | linear .XX±.01/0.3, .XXX±.005/0.13, .XXXX±.0020/0.051

projection | INCH/MM | scale 3:1

dr	M. CORNMAN	6/07/95
engr	D. WHITING	6/07/95
chr	D. WHITING	6/07/95
appd	D. WHITING	6/07/95

product family: RIBCAGE

title: RIBCAGE III SMT VERT. HEADER ASS'Y

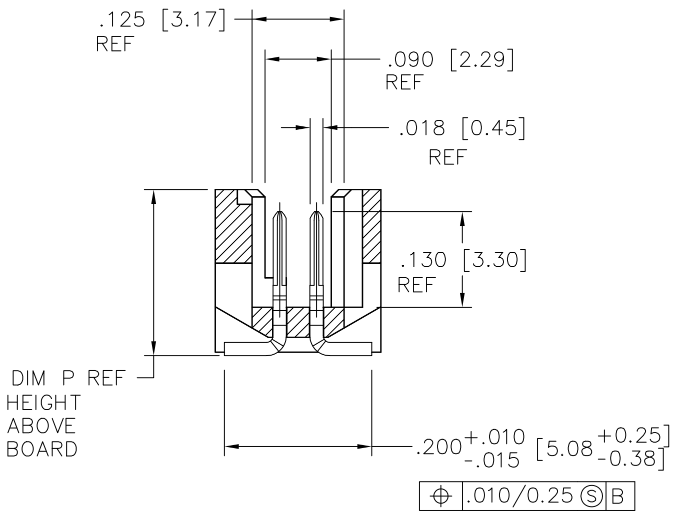
dwg no 95781 | sheet 1 of 8 | size A3

type Product Customer Drawing

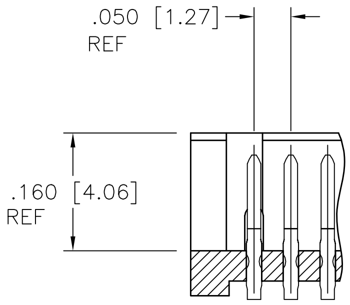
sheet index	1	2	3	4	5	6	7	8
revision	AG	AG	AG	AG	AG	AG	AG	AG

PDS: Rev :AG STATUS: Released Printed: Feb 17, 2012

SIZE	DIM H	DIM J	DIM K	DIM L
2X5	.275/6.99	.200/5.08	.372/9.45	.320/8.13
2X10	.525/13.34	.450/11.43	.622/15.80	.570/14.48
2X15	.775/19.68	.700/17.78	.872/22.15	.820/20.83
2X20	1.025/26.03	.950/24.13	1.122/28.50	1.070/27.18
2X25	1.275/32.38	1.200/30.48	1.372/34.85	1.320/33.53
2X30	1.525/38.74	1.450/36.83	1.622/41.20	1.570/39.88
2X35	1.775/45.08	1.700/43.18	1.872/47.55	1.820/46.23
2X40	2.025/51.43	1.950/49.53	2.122/53.90	2.070/52.58
2X45	2.275/57.78	2.200/55.88	2.372/60.25	2.320/58.93
2X50	2.525/64.14	2.450/62.23	2.622/66.60	2.570/65.28



SECTION X-X
ROTATED 90° CW



SECTION Y-Y

mat'l. code	surface	tolerance	projection	product family
–	ISO 1302	ISO 406 ISO 1101		RIBCAGE

ltr	ecn no	dr	date
AG			

tolerances unless otherwise specified
angles ±2° linear .XX±.01/0.3 .XXX±.005/0.13 .XXXX±.0020/0.051

INCH/MM
scale 3:1

title
RIBCAGE III SMT
VERT. HEADER ASS'Y

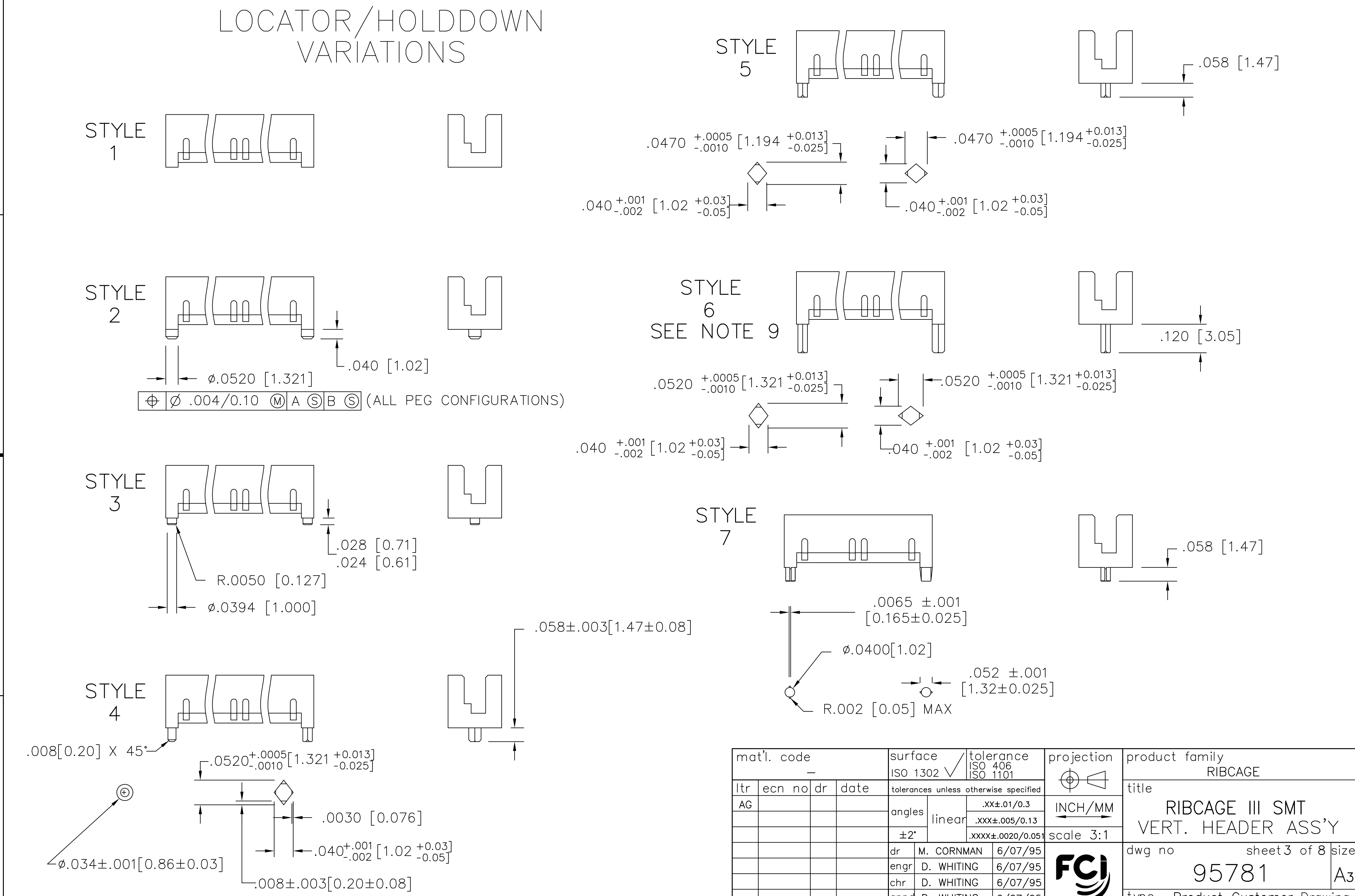
dr	M. CORNMAN	6/07/95
engr	D. WHITING	6/07/95
chr	D. WHITING	6/07/95
appd	D. WHITING	6/07/95

FCI

dwg no 95781 sheet 2 of 8 size A3
type Product Customer Drawing

sheet index | revision sheet

PDS: Rev :AG STATUS:Released Printed: Feb 17, 2012

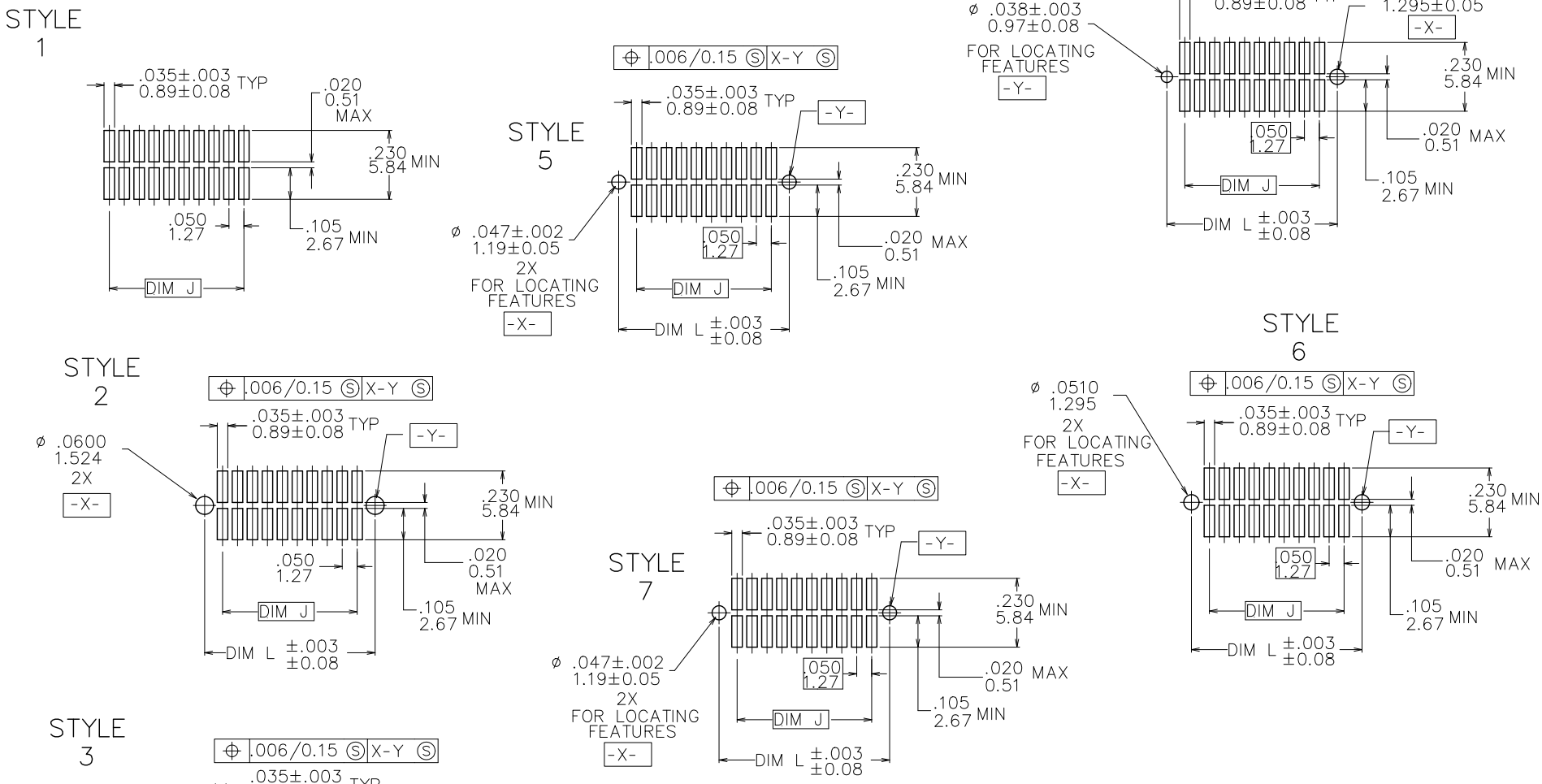


mat'l. code	–
surface	ISO 1302
tolerance	ISO 406 ISO 1101
projection	
product family	RIBCAGE
title	RIBCAGE III SMT VERT. HEADER ASS'Y
ltr	AG
tolerances unless otherwise specified	
angles	±2°
linear	.XX±.01/0.3
	.XXX±.005/0.13
	.XXXX±.0020/0.051
units	INCH/MM
scale	3:1
dr	M. CORNMAN 6/07/95
engr	D. WHITING 6/07/95
chr	D. WHITING 6/07/95
appd	D. WHITING 6/07/95
dwg no	95781
sheet	3 of 8
size	A3
type	Product Customer Drawing

ltr | ecn no | dr | date

sheet index | revision sheet

RECOMMENDED PCB MOUNTING PAD PATTERN



mat'l. code –				surface ISO 1302		tolerance ISO 406 ISO 1101		projection	product family RIBCAGE	
ltr	ecn no	dr	date	tolerances unless otherwise specified					title RIBCAGE III SMT VERT. HEADER ASS'Y	
AG				angles ±2°	linear	.XX±.01/0.3		INCH/MM		
						.XXX±.005/0.13				
						.XXXX±.0020/0.051		scale 3:1		
				dr	M. CORNMAN	6/07/95			dwg no 95781	sheet 4 of 8 size A3
				engr	D. WHITING	6/07/95				
				chr	D. WHITING	6/07/95				
				appd	D. WHITING	6/07/95			type Product Customer Drawing	
sheet index	revision sheet									

form: A3

PRODUCT NUMBER NOTE 1,4A & 4B	DIM P HEIGHT ABOVE BOARD (REF.)	HOLDDOWN STYLE	
~~72428-1XX~~	~~.244/6.20~~	~~1~~	OBSOLETE
73546-1XX	.364/9.25	1	
73547-1XX	.364/9.25	2	
73548-1XX	.364/9.25	4	
~~84700-1XX~~	~~.226/5.74~~	~~7~~	OBSOLETE
~~84701-1XX~~	~~.298/7.57~~	~~7~~	OBSOLETE
~~84734-1XX~~	~~.364/9.25~~	~~7~~	OBSOLETE
87401-1XX	.226/5.74	6	
87409-1XX	.226/5.74	2	
87849-1XX	.226/5.74	1	
88566-1XX	.260/6.60	2	
90098-1XX	.298/7.57	2	
90863-1XX	.226/5.74	1	SEE NOTE 10
91036-1XX	.364/9.25	5	
~~91423-1XX~~	~~.226/5.74~~	~~2~~	* OBSOLETE
~~91855-1XX~~	~~.226/5.74~~	~~5~~	OBSOLETE
~~92099-1XX~~	~~.226/5.74~~	~~4~~	OBSOLETE
~~92412-1XX~~	~~.298/7.57~~	~~4~~	OBSOLETE
93206-1XX	.226/5.74	3	
93221-1XX	.298/7.57	1	
93289-1XX	.298/7.57	5	

TABLE A

CUSTOMER SPECIAL

FCIconnect.com

mat'l. code –				surface ISO 1302 √	tolerance ISO 406 ISO 1101	projection	product family RIBCAGE				
ltr	ecn no	dr	date	tolerances unless otherwise specified			title RIBCAGE III SMT VERT. HEADER ASS'Y				
AG				angles ±2°	linear .XX±.01/0.3 .XXX±.005/0.13 .XXXX±.0020/0.051	INCH/MM scale 3:1					
				dr	M. CORNMAN	6/07/95	dwg no 95781	sheet 5 of 8	size A3		
				engr	D. WHITING	6/07/95					
				chr	D. WHITING	6/07/95					
				appd	D. WHITING	6/07/95	type Product Customer Drawing				
sheet index	revision sheet										

form: A3

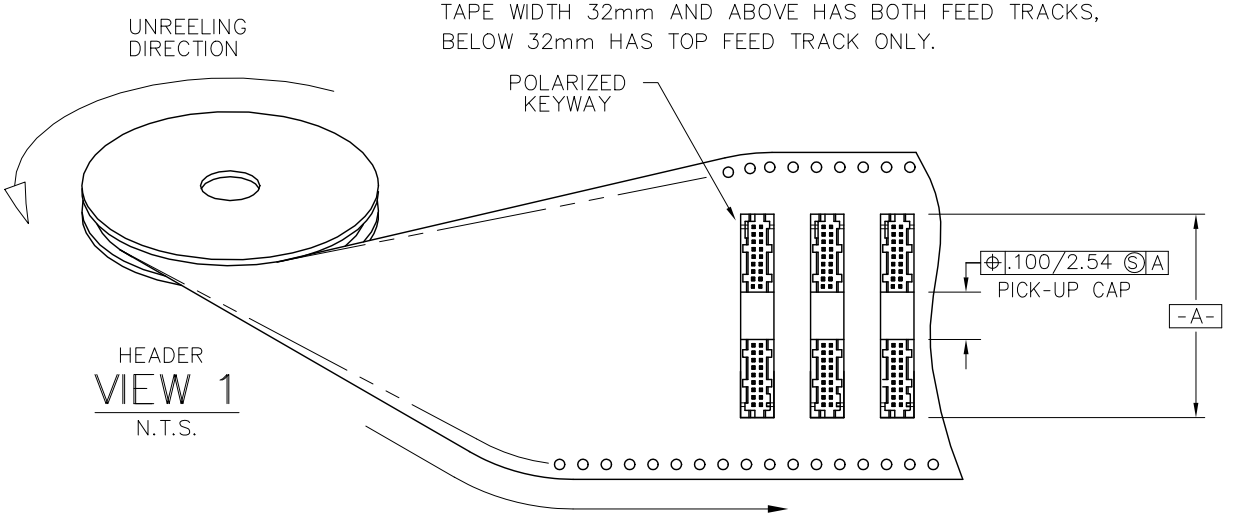
PDS: Rev :AG STATUS: Released Printed: Feb 17, 2012

PRODUCT NUMBER NOTE 11,4C	QTY. REEL	TAPE WIDTH PITCH MM	CONNECTOR ORIENTATION IN TAPE POCKET	
~~72428-120TR~~	500	~~44/12~~	VIEW 1	OBSOLETE
73546-105TR		24/12		
73546-110TR		32/12		
73546-115TR		44/12		
73546-120TR		44/12		
73546-125TR		56/12		
73546-130TR		56/12		
73546-135TR		72/12		
73546-140TR		72/12		
73546-145TR		72/12		
73546-150TR		88/12		
73547-105TR		24/12		
73547-110TR		32/12		
73547-115TR		44/12		
73547-120TR		44/12		
73547-125TR		56/12		
73547-130TR		56/12		
73547-135TR		72/12		
73547-140TR		72/12		
73547-145TR		72/12		
73547-150TR	500	88/12		
~~84700-105TR~~	~~400~~	~~24/12~~		OBSOLETE
~~84700-135TR~~	500	~~72/12~~		OBSOLETE
87409-105TR		24/12		
87409-110TR		24/12		
87409-115TR		44/12		
87409-120TR		44/12		
87409-125TR		56/12		
87409-130TR	500	56/12	VIEW 1	

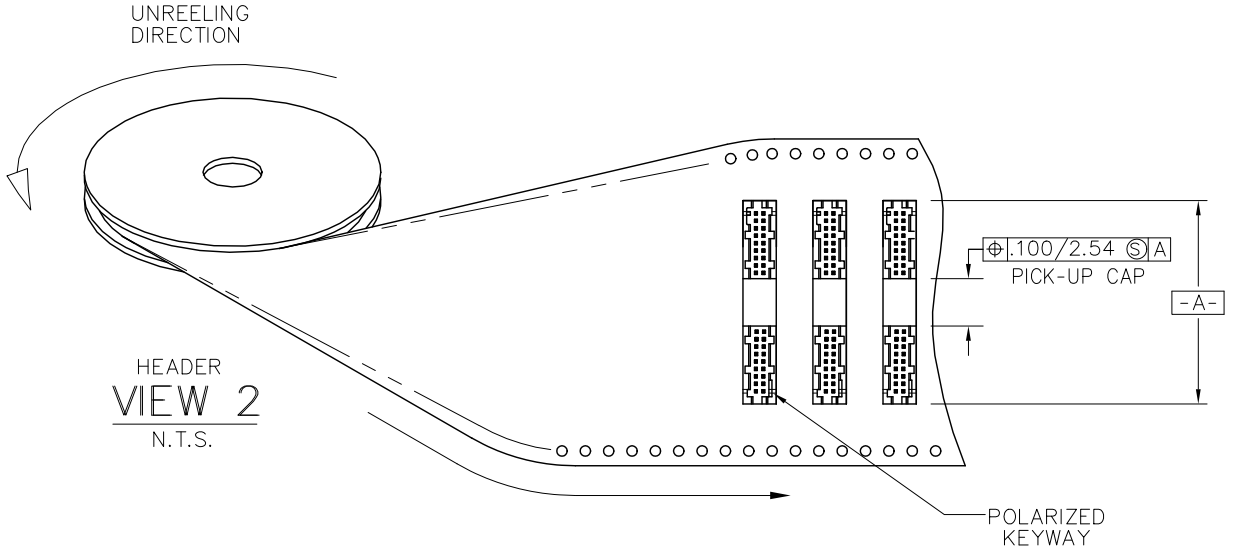
TABLE C

REFERENCE ONLY :

TAPE WIDTH 32mm AND ABOVE HAS BOTH FEED TRACKS, BELOW 32mm HAS TOP FEED TRACK ONLY.



HEADER
VIEW 1
N.T.S.



HEADER
VIEW 2
N.T.S.

mat'l. code –				surface ISO 1302	tolerance ISO 406 ISO 1101	projection	product family RIBCAGE				
ltr	ecn no	dr	date	tolerances unless otherwise specified			title RIBCAGE III SMT VERT. HEADER ASS'Y				
AG				angles ±2°	linear .XX±.01/0.3 .XXX±.005/0.13 .XXXX±.0020/0.051	INCH/MM scale 3:1					
				dr	M. CORNMAN	6/07/95	dwg no 95781	sheet 6 of 8	size A3		
				engr	D. WHITING	6/07/95					
				chr	D. WHITING	6/07/95					
				appd	D. WHITING	6/07/95	type Product Customer Drawing				
sheet index	revision sheet										

PRODUCT NUMBER NOTE 11,4C	QTY. REEL	TAPE WIDTH PITCH MM	CONNECTOR ORIENTATION IN TAPE POCKET
87409-135TR	500	72/12	VIEW 1
87409-140TR		72/12	
87409-145TR		72/12	
87409-150TR		88/12	
87849-105TR		24/12	
87849-110TR		24/12	
87849-115TR		44/12	
87849-120TR		44/12	
87849-125TR		56/12	
87849-130TR		56/12	
87849-135TR		72/12	
87849-140TR		72/12	
87849-145TR		72/12	
87849-150TR		88/12	
88566-110TR		24/12	
88566-115TR		44/12	
88566-130TR	500	56/12	
90098-105TR	400	24/12	
90098-110TR	400	32/12	
90098-115TR	500	44/12	
90098-120TR	500	44/12	
90098-125TR	400	56/12	
90098-130TR	500	56/12	
90098-135TR		72/12	
90098-140TR		72/12	
90098-145TR		72/12	
90098-150TR		88/12	
90863-110		24/12	
90863-115	500	44/12	VIEW 1

TABLE C

mat'l. code –	surface ISO 1302	tolerance ISO 406 ISO 1101	projection
ltr ecn no dr date: AG	tolerances unless otherwise specified		
	angles ±2°	linear .XX±.01/0.3 .XXX±.005/0.13 .XXXX±.0020/0.051	INCH/MM
			scale 3:1
	dr M. CORNMAN 6/07/95		
	engr D. WHITING 6/07/95		
	chr D. WHITING 6/07/95		
	appd D. WHITING 6/07/95		

product family: RIBCAGE

title: RIBCAGE III SMT VERT. HEADER ASS'Y

dwg no 95781 | sheet 7 of 8 | size A3

type Product Customer Drawing

sheet index | revision sheet

form: A3

PRODUCT NUMBER NOTE 11,4C	QTY. REEL	TAPE WIDTH PITCH MM	CONNECTOR ORIENTATION IN TAPE POCKET
90863-115REV	500	44/12	VIEW 2
90863-120	↑	44/12	VIEW 1
90863-125		56/12	↑
90863-130		56/12	
91036-110P		24/16	
93206-110TR	↓	24/12	↓
93206-115TR	500	44/12	
93221-105TR	400	24/12	
93221-110TR	400	32/12	
93221-115TR	500	44/12	
93221-120TR	500	44/12	
93221-125TR	400	56/12	
93221-130TR	500	56/12	
93221-135TR	↑	72/12	
93221-140TR		72/12	
93221-145TR	↓	72/12	↓
93221-150TR	500	88/12	VIEW 1

TABLE C

NOTES:

1. XXXXX-XXXLF
   - LEAD FREE OPTION (NOTE 11& 13)
   - NUMBER OF POSITIONS (NOTE 2)
2. NUMBER OF POSITIONS = 05 THRU 50 IN 5 POS INCREMENTS. (EXAMPLE : 105=10 POS., 110=20 POS. ETC.)
3. REQUIRED ON -X40,-X45 & -X50 POSITION PARTS ONLY.
4. PACKAGING :
   A. ANTISTATIC TUBES. SEE TABLE A
   B. ADD "CT" TO END OF DASH NUMBER FOR CONNECTOR WITH VACUUM CAP IN ANTISTATIC TUBES. EX. : XXXXX-1XXCT
   C. PRESSURE SEALED TAPE AND REEL. SEE TABLE C FOR AVAILABLE PART NUMBERS.
5. HOUSING MATERIAL : GLASS FILLED THERMOPLASTIC FLAME RETARDANT PER UL 94V-0. COLOR : NATURAL
6. TERMINAL PLATING : 30u"/.76u HARD GOLD OR GXT OVER 50u"/1.27u NI ON CONTACT ZONES. 100u"/2.54u PURE TIN OVER 50u"/1.27u Ni IN SOLDERING ZONES.
7. MOLDING FLOW RESTRICTOR QUANTITY AND LOCATION IS MANUFACTURING OPTION.
8. VACUUM CAP SLOT REQUIRED ON ALL SIZES, SLOT MAY BE LOCATED ON OPPOSITE SIDE FOR 2 X 5.
9. STYLE 6 IS NOT AVAILABLE IN TAPE AND REEL.
10. 90863-1XX IS PACKAGED ONLY IN TAPE AND REEL.
11. ADD LF SUFFIX AT THE END OF PART NUMBER FOR LEAD FREE OPTION.
12. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 20 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN. SEE APPLICATION NOTE/PROCEDURES IF THEY ARE AVAILABLE.
13. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATION AS DESCRIBED IN GS-22-008.
14. PRODUCT SPECIFICATION SEE BUS-12-087.

mat'l. code: –	surface: ISO 1302 √	tolerance: ISO 406 ISO 1101	projection
ltr: AG; ecn no; dr; date	tolerances unless otherwise specified	angles: ±2°	linear: .XX±.01/0.3; .XXX±.005/0.13; .XXXX±.0020/0.051	INCH/MM	scale 3:1
dr: M. CORNMAN 6/07/95	engr: D. WHITING 6/07/95	chr: D. WHITING 6/07/95	appd: D. WHITING 6/07/95		
product family: RIBCAGE			
title: RIBCAGE III SMT VERT. HEADER ASS'Y			
dwg no: 95781	sheet 8 of 8	size: A3	
type: Product Customer Drawing			
sheet index	revision sheet		