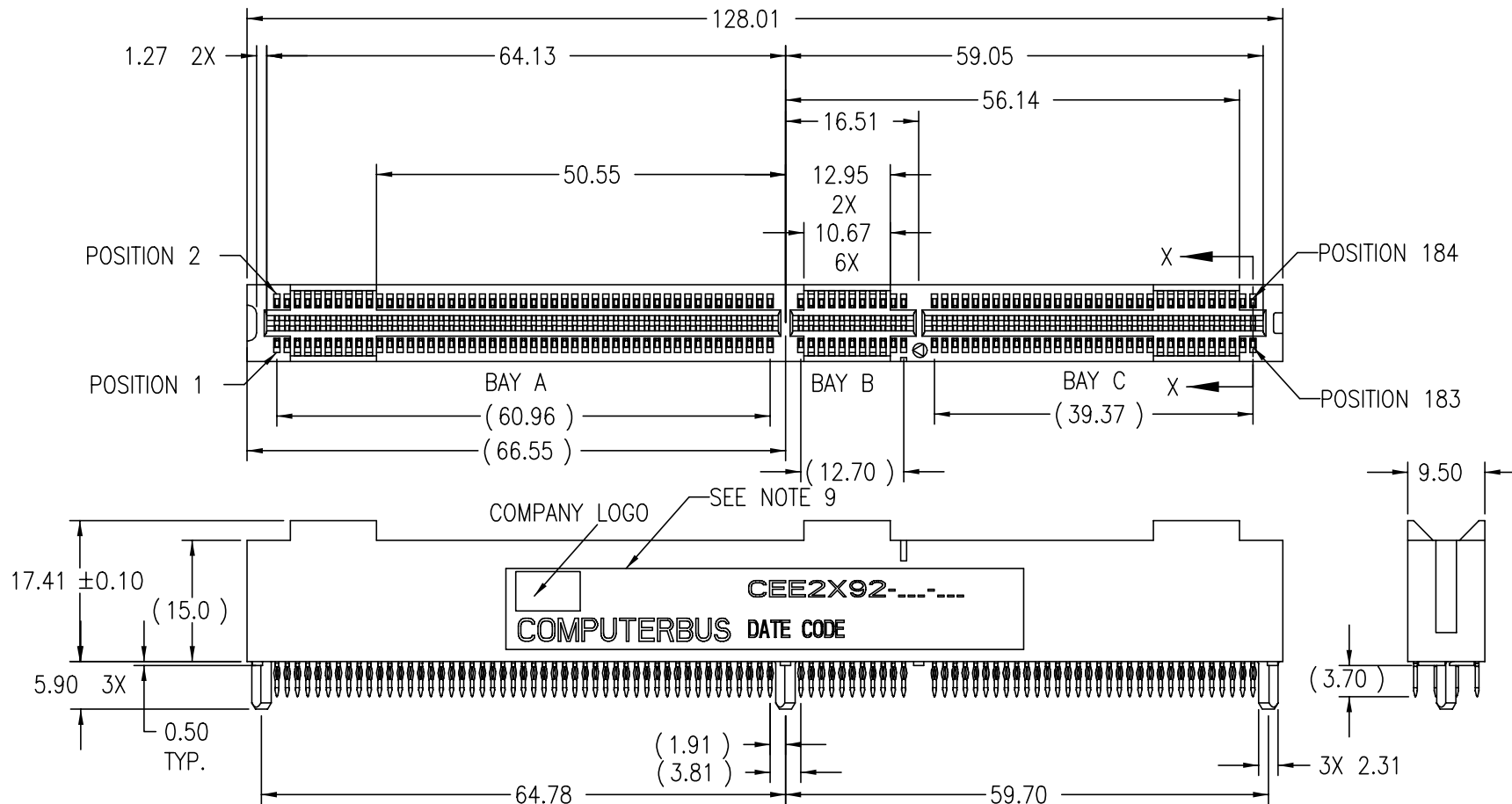


PRODUCT NUMBER
SEE TABLE



CEE2X92PF-102PY4, CEE2X92PF-102PY4LF SHOWN, FULLY LOADED
CEE2X92PF-153PY4, CEE2X92PF-153PY4LF SIMILAR, EXCEPT FOR LOAD PATTERN
CEE2X92PF-102Z56, CEE2X92PF-102Z56LF FULLY LOADED OBSOLETE
CEE2X92PF-153Z56, CEE2X92PF-153Z56LF SIMILAR, EXCEPT FOR LOAD PATTERN OBSOLETE
CEE2X92PF-102PY4W, CEE2X92PF102PY4WLF SHOWN, FULLY LOADED

mat'l. code				surface ISO 1302	tolerance ISO 406 ISO 1101	projection	product family CARDEGE			
ltr	ecn no	dr	date	tolerances unless otherwise specified		 MM scale 6:5	title CEE 2X92 PF CONNECTOR ASSEMBLY			
AD	M06-0234	AGS	06/16/06	angles	linear		dwg no sheet 1 of 7 size SE96947 A3			
AE	M06-0325	MHT	8/24/06							
AF	M06-0427	AGS	10/26/06	0°±1°						
AG	M06-0445	AGS	11/06/06	dr	G. PETERS	9/18/01				
AH	M07-0075	MHT	1/25/07	engr	D. CASEY	9/21/01				
AJ	M08-0224	MHT	8/13/09	chr	G. PETERS	9/18/01				
AK	N09-0382	YOH	12/1/09	appd	D. CASEY	9/18/01	type Product Customer Drawing			
sheet	revision	AK	AK	AK	AK	AK	AK			
index	sheet	1	2	3	4	5	6	7		

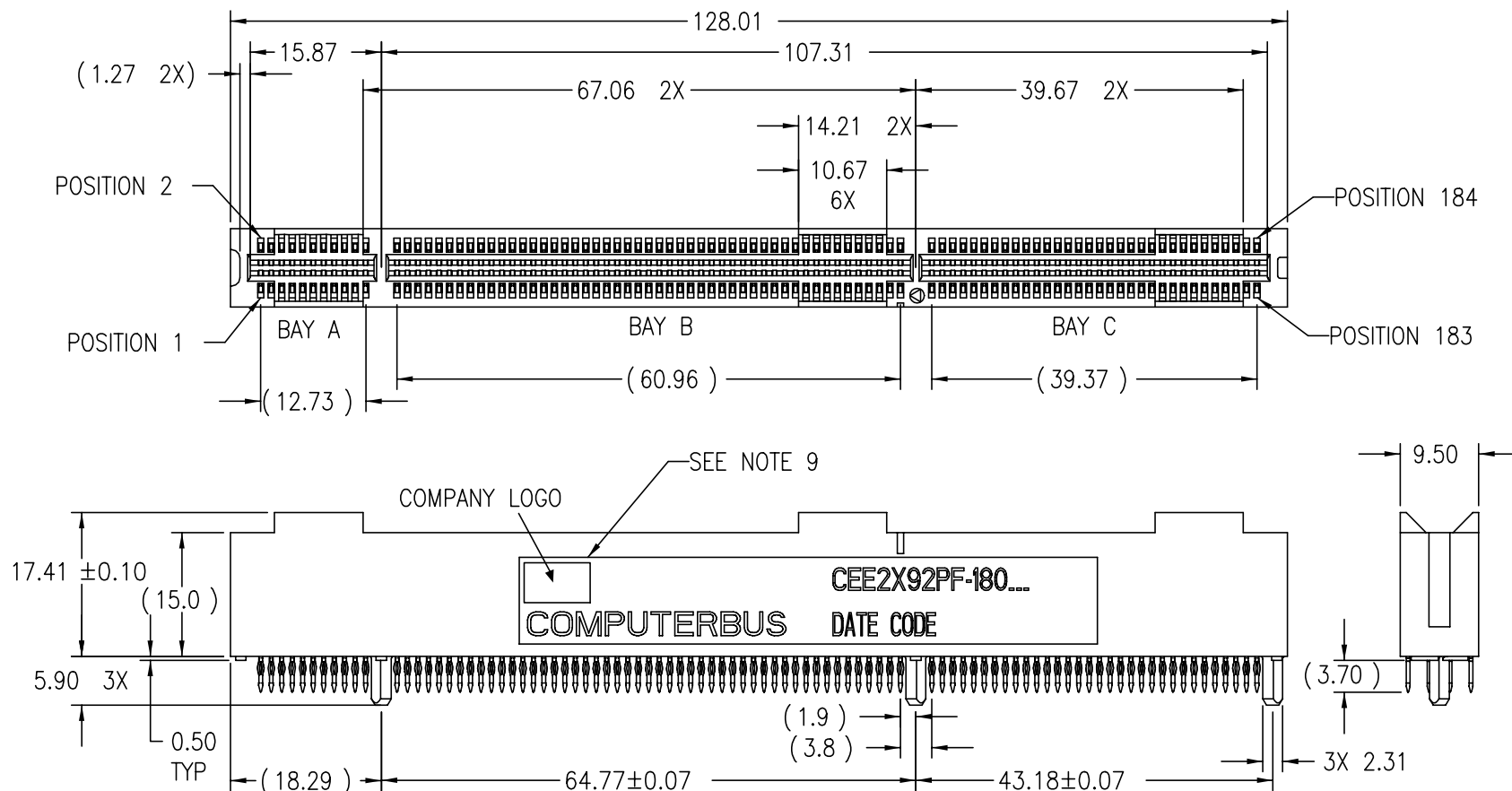
PDM: Rev:AK

STATUS: Released

Printed: Feb 20, 2010

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PRODUCT NUMBER
SEE TABLE

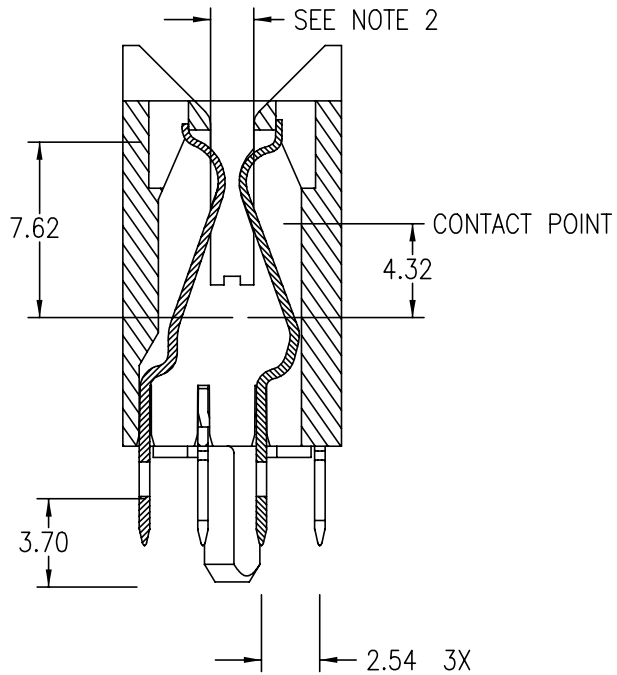


CEE2X92PF-180PY4, CEE2X92PF-180PY4LF CONNECTOR SHOWN
~~CEE2X92PF-180Z56, CEE2X92PF-180Z56LF FULLY LOADED OBSOLETE~~
 CEE2X92PF-180PY4W, CEE2X92PF180PY4WLF CONNECTOR SHOWN

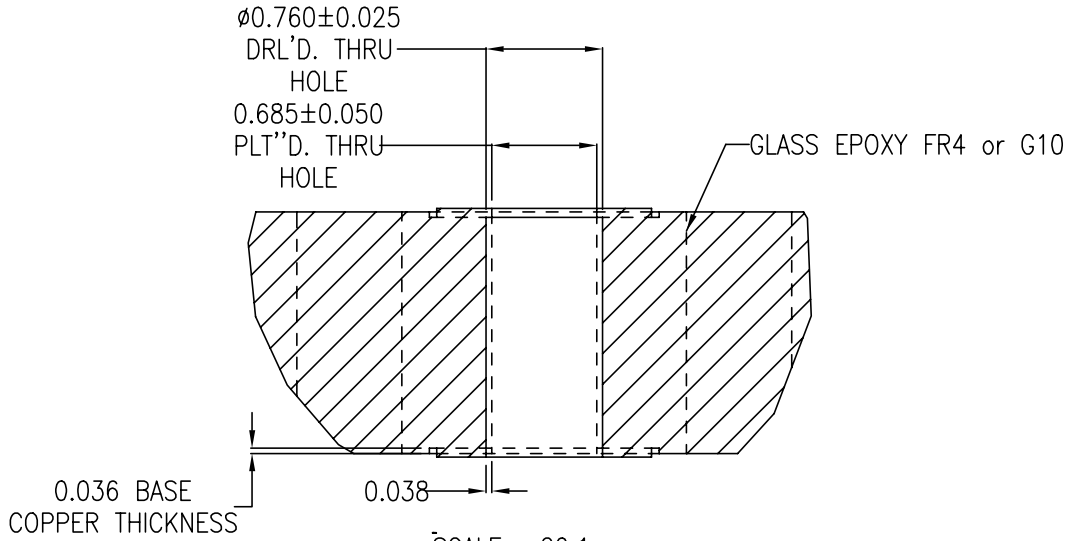
mat'l. code				surface ISO 1302	tolerance ISO 406 ISO 1101	projection MM	product family CARDEGE
ltr	ecn no	dr	date	tolerances unless otherwise specified			title
AK				angles	linear	scale 6:5	CEE 2X92 PF CONNECTOR ASSEMBLY
				0°±1°	.X±.2 .XX±.10 .XXX±.050		dwg no
				dr	G. PETERS	9/18/01	sheet 2 of 7 size
				enr	D. CASEY	9/21/01	SE96947 A3
				chr	G. PETERS	9/18/01	type
				appd	D. CASEY	9/18/01	Product Customer Drawing
sheet index	revision sheet						

FCI CATALOG NO. f/CONNECTORS w/CARD COLLECTORS	CONNECTOR SIZE	NO. CONTACTS LOADED	TERM.	LOAD PATTERN UNPOPULATED POSITIONS	CONTACT PAIRS BAY A	CONTACT PAIRS BAY B	CONTACT PAIRS BAY C
CEE2X92PF-102PY4	2x92	184	P.F.	FULLY LOADED	49	11	32
CEE2X92PF-102PY4W	2x92	184	P.F.	FULLY LOADED	49	11	32
CEE2X92PF-180PY4	2x92	184	P.F.	FULLY LOADED	11	49	32
CEE2X92PF-180PY4W	2x92	184	P.F.	FULLY LOADED	11	49	32
CEE2X92PF-153PY4	2x92	159	P.F.	2,4,5,9,10,11,12,13,14,29,30,31,32,51,52,53,54,155,156,157,158,159,160,161,162	49	11	32
CEE2X92PF-102Z56	2x92	184	P.F.	FULLY LOADED	49	11	32
CEE2X92PF-180Z56	2x92	184	P.F.	FULLY LOADED	11	49	32
CEE2X92PF-153Z56	2x92	159	P.F.	2,4,5,9,10,11,12,13,14,29,30,31,32,51,52,53,54,155,156,157,158,159,160,161,162	49	11	32
CEE2X92PF-102PY4LF	2x92	184	P.F.	FULLY LOADED	49	11	32
CEE2X92PF102PY4WLF	2x92	184	P.F.	FULLY LOADED	49	11	32
CEE2X92PF-180PY4LF	2x92	184	P.F.	FULLY LOADED	11	49	32
CEE2X92PF180PY4WLF	2x92	184	P.F.	FULLY LOADED	11	49	32
CEE2X92PF-153PY4LF	2x92	159	P.F.	2,4,5,9,10,11,12,13,14,29,30,31,32,51,52,53,54,155,156,157,158,159,160,161,162	49	11	32
CEE2X92PF-102Z56LF	2x92	184	P.F.	FULLY LOADED	49	11	32
CEE2X92PF-180Z56LF	2x92	184	P.F.	FULLY LOADED	11	49	32
CEE2X92PF-153Z56LF	2x92	159	P.F.	2,4,5,9,10,11,12,13,14,29,30,31,32,51,52,53,54,155,156,157,158,159,160,161,162	49	11	32

OBSOLETE
OBSOLETE
OBSOLETE
OBSOLETE
OBSOLETE
OBSOLETE



SECTION X-X



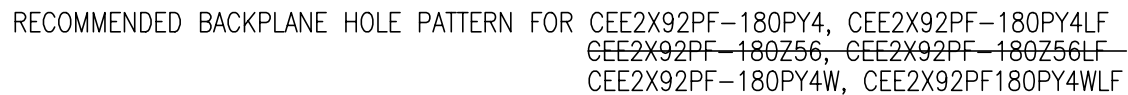
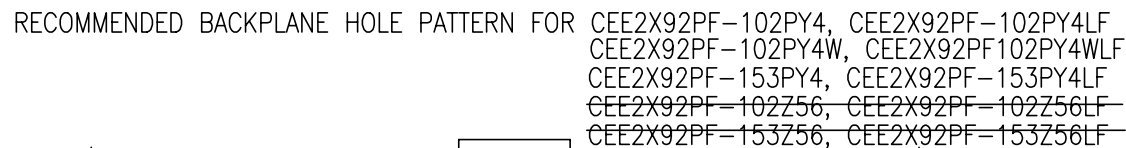
SCALE 20:1
RECOMMENDED PLATED THRU HOLE DIMENSIONS
FOR COMPLIANT PRESS PINS

mat'l. code				surface ISO 1302 ☒		tolerance ISO 406 ISO 1101		projection 		product family CARDEGE			
ltr	ecn no	dr	date	tolerances unless otherwise specified						title			
AK				angles	linear	$.X \pm .2$		 MM		CEE 2X92 PF CONNECTOR ASSEMBLY			
				$0^\circ \pm 1^\circ$		$.XX \pm .10$							
						$.XXX \pm .050$		scale 6:5		dwg no sheet 3 of 7 size			
				dr	G. PETERS	9/18/01				SE96947 A3			
				engr	D. CASEY	9/21/01							
				chr	G. PETERS	9/18/01							
				appd	D. CASEY	9/18/01				type Product Customer Drawing			
sheet index		revision sheet											

PDM: Rev:AK

STATUS: Released

Printed: Feb 20, 2010

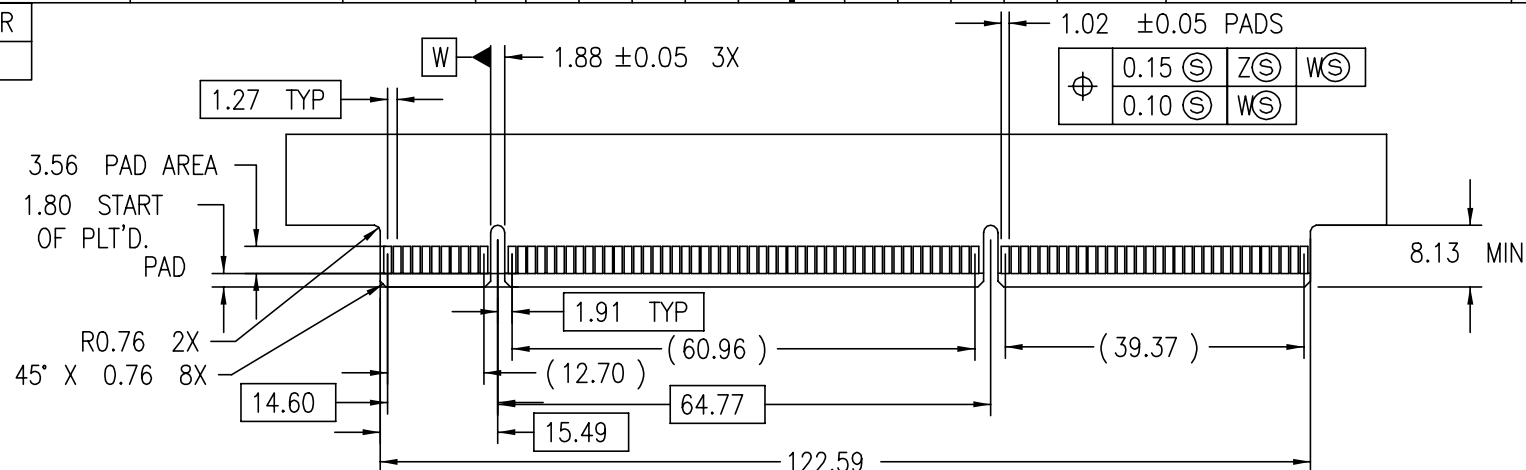




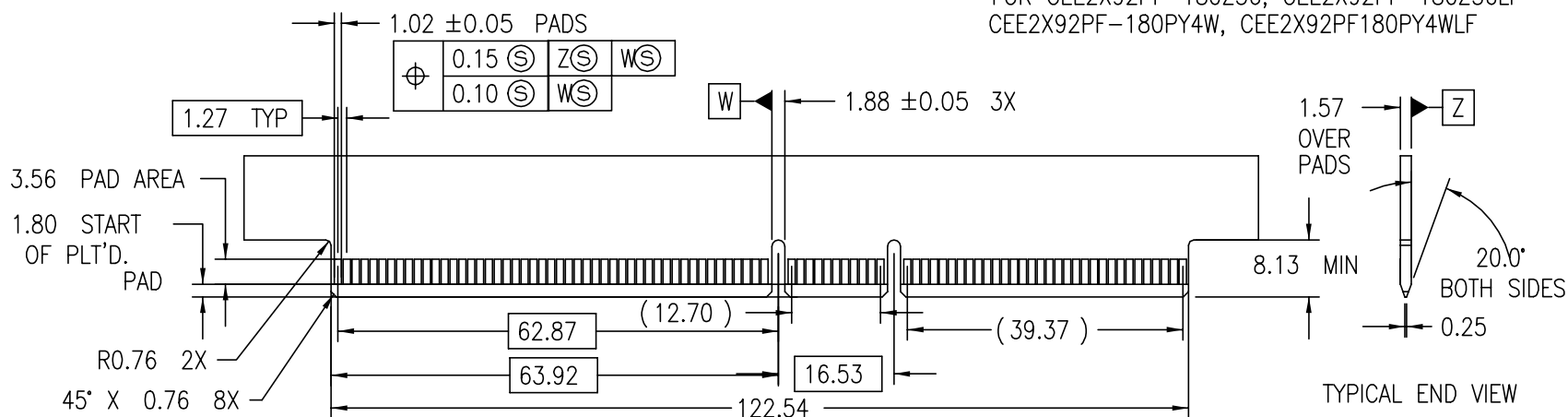
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PRODUCT NUMBER
SEE TABLE



RECOMMENDED BACKPLANE COMPONENT PCB FOR CEE2X92PF-180PY4, CEE2X92PF-180PY4LF
FOR CEE2X92PF-180Z56, CEE2X92PF-180Z56LF
CEE2X92PF-180PY4W, CEE2X92PF-180PY4WLF



RECOMMENDED BACKPLANE COMPONENT PCB FOR CEE2X92PF-102PY4, CEE2X92PF-102PY4LF
CEE2X92PF-102PY4W, CEE2X92PF-102PY4WLF
CEE2X92PF-153PY4, CEE2X92PF-153PY4LF
~~CEE2X92PF-102Z56, CEE2X92PF-102Z56LF~~
~~CEE2X92PF-153Z56, CEE2X92PF-153Z56LF~~

mat'l. code				surface ISO 1302	tolerance ISO 406 ISO 1101	projection	product family CARDEDGE			
ltr	ecn no	dr	date	tolerances unless otherwise specified		 MM scale 1:1	title CEE 2X92 PF CONNECTOR ASSEMBLY			
AK				angles	linear		dwg no SE96947			
				0°±1°						
				dr	G. PETERS	9/18/01	sheet 5 of 7 size A3			
				enrg	D. CASEY	9/21/01				
				chr	G. PETERS	9/18/01	type Product Customer Drawing			
				appd	D. CASEY	9/18/01				
sheet index	revision sheet									

PDM: Rev:AK

STATUS:Released

Printed: Feb 20, 2010

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PRODUCT NUMBER

SEE TABLE

NOTES:

1. INTERPRET THIS DRAWING IN ACCORDANCE WITH ANSI Y14.5M -1982.
- ② CONNECTORS WITH CARD COLLECTING SCOOPS ARE DESIGNED TO ACCOMMODATE 1.57+/- .180 PC BOARDS WITH WARPAGE UP TO +/-2.03.
3. RECOMMENDED COMPONENT BOARD MATERIAL:
P.C. BOARD:FR-4 WITH 28.35 GRAMS MIN. COPPER, PADS PLATED WITH .76 MICRONS MIN GOLD, PER MIL-G-45204, TYPE 1, CLASS 1, GRADE C OVER 2.54 MICRONS MIN NI. UNDERPLATE PER QQ-N-290.
4. RECOMMENDED BACK PLANE THICKNESS IS 2.39 FOR 3.71 COMPLIANT TAIL.
5. CONTACT MATING SURFACES ARE LUBRICATED WITH OS-138.
6. MATERIAL:

BODY: POLYPHTHALAMIDE (PPA) UL RATED 94V-0
COLOR, BLACK

LIQUID CRYSTAL POLIMER (LCP) 30% GF
COLOR, NATURAL

CONTACTS: PHOS BRONZE, PER FCI SPEC. M738

CONTACT FINISH:
PY4 MAY BE EITHER 0.76 MICRONS GOLD OR 0.76 MICRONS GXT PLATED
AT MANUFACTURER'S OPTION IN CRITICAL CONTACT AREA
1-3/ MICRONS TIN/LEAD OVER 1.27 MICRONS Ni UNDERPLATE ON
CONTACT TAILS.

Z56 0.40 MICRONS GOLD OVER 2.00 MICRONS
Ni UNDERPLATE IN CRITICAL CONTACT AREA. 1-3 MICRONS
TIN/LEAD OVER 2.00 MICRONS Ni UNDERPLATE ON PRESSFIT
TAILS.

LEAD FREE OPTION:

PY4 MAY BE EITHER 0.76 MICRONS GOLD OR 0.76 MICRONS GXT PLATED
AT MANUFACTURER'S OPTION IN CRITICAL CONTACT AREA
1-3 MICRONS TIN OVER 1.27 MICRONS Ni UNDERPLATE ON
CONTACT TAILS.

Z56 0.40 MICRONS GOLD OVER 2.00 MICRONS
Ni UNDERPLATE IN CRITICAL CONTACT AREA. 1-3 MICRONS
PURE TIN OVER 2.00 MICRONS Ni UNDERPLATE ON PRESSFIT
TAILS.

7. PERFORMANCE CHARACTERISTICS: SEE SHEET 7.

- ⑧ ITEM NAME, LOGO, PART NUMBER, DATE CODE, AND UL SYMBOLS TO BE
DISPLAYED IN THIS AREA NATURAL COLOR CONNECTOR ONLY WILL
HAVE DATE CODE DISPLAYED

9. LF SUFFIX AT THE END OF PART NUMBER IS LEAD FREE OPTION.
NATURAL COLOR CONNECTOR ONLY WILL HAVE DATE CODE DISPLAYED.
EXAMPLE: CEE2X92PF-180PY4LF

LEAD FREE OPTION.

10. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER
COUNTRY REGULATION AS DESCRIBED IN GS-22-008.

11. PART NUMBERS WITH "W" AT THE END OR "W" BEFORE "LF"
ARE MOLDED IN NATURAL COLOR.

mat'l. code		surface ISO 1302		tolerance ISO 406 ISO 1101		projection 		product family CARDEDGE	
lfr	ecn no	dr	date	tolerances unless otherwise specified		MM		title	
AK				angles	linear	.X±.2		CEE 2X92 PF	
						.XX±.10		CONNECTOR ASSEMBLY	
				0°±1°		.XXX±.050		scale 1:2	
				dr	G. PETERS	9/18/01		dwg no	
				engr	D. CASEY	9/21/01		sheet 6 of 7	
				chr	G. PETERS	9/18/01		size	
				appd	D. CASEY	9/18/01		SE96947	
sheet		revision						type	
index		sheet						Product Customer Drawing	

PRODUCT NUMBER

SEE TABLE

PERFORMANCE CHARACTERISTICS:"PY4 PLATED CONTACTS ONLY"

ENVIRONMENTAL:

OPERATING TEMPERATURE: -40C TO 105C

THERMAL SHOCK: EIA-364 TP32, -55C TO +85C, 5 CYCLES

FLAMABILITY RATING: UL94V-0

MECHANICAL:

DURABILITY: 100 MATING CYCLES WITHOUT PHYSICAL DAMAGE, OR EXCEEDING LOW LEVEL CONTACT
RESISTANCE REQUIREMENTS WHEN MATED WITH RECOMMENDED CARD.

CONTACT RETENTION: EIA-364 TP29, 4.4 N MIN.

MATING FORCE: EIA-364 TP13 2.0 N MAX. AVERAGE PER OPPOSING PAIR USING
GAUGE PER MIL-STD-C-21097 WITH CARD PROFILE

CONTACT NORMAL FORCE: 0.72 N MINIMUM

PRESS FIT TERMINATION FORCES: INSERTION FORCE 70 N MAX. PER PIN
RETENTION FORCE 9 N MIN. PER PIN

ELECTRICAL:

CONTACT RESISTANCE: EIA-364 TP45, WITH 10 MILLIOHM MAX. INITIAL, 20
(LOW SIGNAL LEVEL) MILLIOHM RISE. COMPONENT BOARD SIDE - 1 MILLIOHM MAX., CONNECTION
PRESS FIT PIN WITH w/PLATED THROUGH HOLE.

INSULATION RESISTANCE: MIL-STD-202, METHOD 302, CONDITION B, 1000 MEGAOHMS MIN.

DIELECTRIC WITHSTAND VOLTAGE: EIA-364 TP45 CONDITION 1, 500 VAC RM

CAPACITANCE: 2 PICO FARADS, MAX AT 1 MEGAHERTZ

CURRENT RATING: 1 AMP, 30C RISE ABOVE AMBIENT

VOLTAGE RATING: 150 VAC (RMS)

mat'l. code				surface ISO 1302		tolerance ISO 406 ISO 1101		projection 		product family CARDEDGE									
ltr	ecr no	dr	date	tolerances unless otherwise specified						 MM scale 1:2		title CEE 2X92 PF CONNECTOR ASSEMBLY							
AK				angles	linear	.X±.2													
				0°±1°		.XX±.10 .XXX±.050													
				dr	G. PETERS	9/18/01				dwg no SE96947 sheet 7 of 7 size A3									
				enr	D. CASEY	9/21/01													
				chr	G. PETERS	9/18/01													
				appd	D. CASEY	9/18/01													
sheet index		revision sheet																	