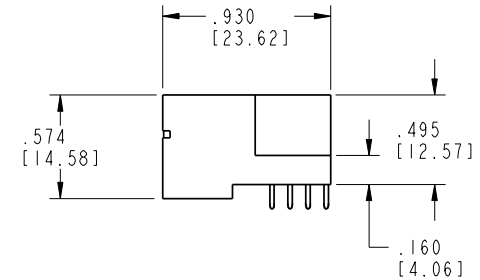
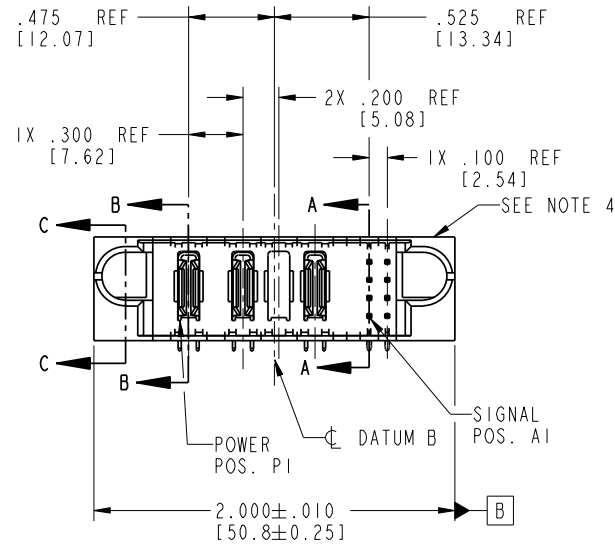


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A
FCI

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PRODUCT NO.	ROWS	POWER SIGNAL									
		E1	P1	P2	P3	P4	1	2	E2		
51939-185-- Note: (3)	0 B A		PA	PA	X	PA	1	2	2 1 1 2 1 2 1 2		



CODE	DIM "M" MATING LENGTH	CONTACT TYPE
U	.270 [6.86]	SIGNAL
T	.270 [6.86]	SIGNAL
S	.270 [6.86]	SIGNAL
R	.270 [6.86]	SIGNAL
E	.220 [5.59]	SIGNAL
PA	N/A [N/A]	POWER
X	OMITTED	OMITTED

mat'l code				tolerances unless otherwise specified		CUSTOMER		A FCI	
lir	ecn no.	dr	date	linear		COPY		www.fciconnect.com	
A	DG05-0109	GuoJM	05/12/05		.XX±.01/0.X±0.3	projection		title	4P+8S
B	DG06-0001	RYAN	01/04/06		.XXX±.005/0.XX±0.13 .XXX±.0020/0.XXX±0.051	INCH/MM		RIGHT ANGLE SOLDER HEADER	
				angles	0°±2°	scale	1:1	product family	PwrBlade
				dr	JM Guo 05/12/05			code	213
				enrg	STEVEN 05/12/05			size	dwg no
				chr	VICTOR 05/12/05			51939-185	sheet
				appd	JOSEPH HSIA 05/12/05				1 of 4
sheet index	revision	B	B	B	B				
	sheet	1	2	3	4				

Pro/E

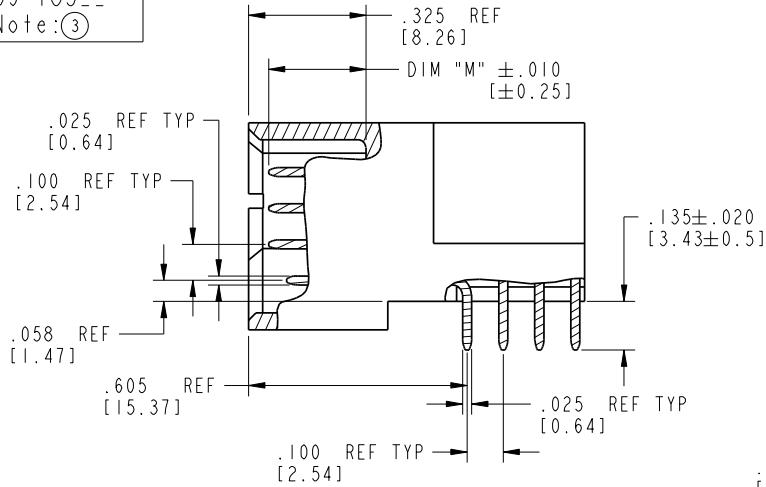
cage code 22526

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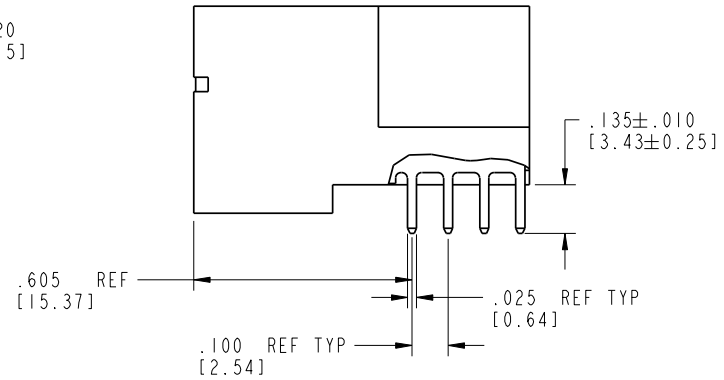
A
FCI

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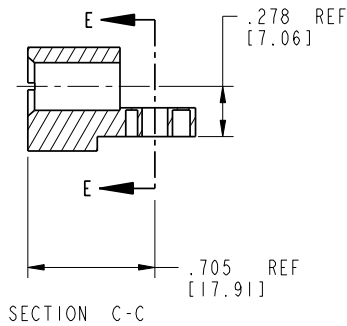
PRODUCT NUMBER
51939-185--
Note: (3)



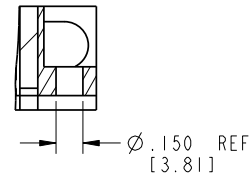
BROKEN-OUT SECTION A-A
SCALE 2:1



BROKEN-OUT SECTION B-B
SCALE 2:1



SECTION C-C



PARTIAL SECTION E-E

mat'l code				SEE NOTE 2		tolerances unless otherwise specified		CUSTOMER		A FCI		www.fciconnect.com	
lir	ecn no.	dr	date	linear	linear	linear	linear	projection	projection	title	title	product family	code
B					.XX±.01/0.X±0.3	.XXX±.005/0.XX±0.13	.XXX±.0020/0.XXX±0.051	0°±2°	0°±2°	4P+8S	RIGHT ANGLE SOLDER HEADER	PwrBlade	213
				dr	JM Guo	05/12/05		INCH/MM	INCH/MM	size	size	dwg no	sheet
				enrg	STEVEN	05/12/05		scale	scale	A	51939-185		2 of 4
				chr	VICTOR	05/12/05							
				appd	JOSEPH HSIA	05/12/05							
sheet index	revision	sheet											

Pro/E

code code 22526

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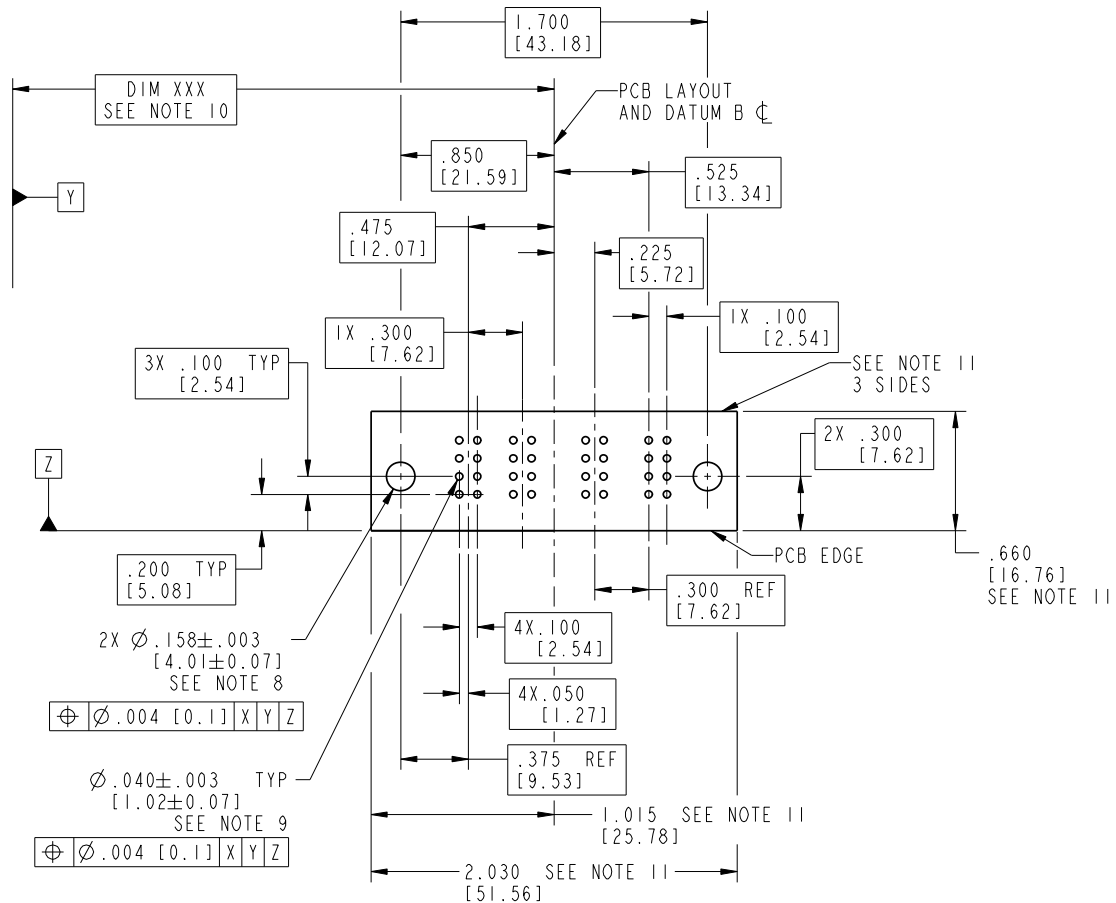
A
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A

B

PRODUCT NUMBER
51939-185--
Note: (3)



RECOMMENDED PCB LAYOUT

mat'l code				tolerances unless otherwise specified		CUSTOMER	
lir	ecn no.	dr	date	linear	angular	COPY	A FCI
B				linear	angular	projection	www.fciconnect.com
				linear	angular	projection	title
				linear	angular	projection	4P+8S
				linear	angular	projection	RIGHT ANGLE SOLDER HEADER
				linear	angular	projection	product family
				linear	angular	projection	PwrBlade
				linear	angular	projection	code
				linear	angular	projection	213
				linear	angular	projection	sheet
				linear	angular	projection	3 of 4
sheet index	revision	sheet					

Pro/E

3

code code 22526

4

A

B

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A

B

1 | 2

3 |

4

PRODUCT NUMBER

51939-185--

Note: (3)

NOTES:

1. DIMENSIONS AND TOLERANCES ARE IN ACCORDANCE WITH ASME Y14.5M, 1994 UNLESS OTHERWISE SPECIFIED.

CONNECTOR NOTES:

(2.) HOUSING MATERIAL: UL 94 V-0 GLASS FILLED HIGH-TEMP THERMOPLASTIC

POWER CONTACT MATERIAL: COPPER ALLOY

SIGNAL PIN MATERIAL: COPPER ALLOY

3. PLATING:

51939-185: SIGNAL PIN: 30u"/0.76um Au OVER 50u"/1.27um Ni ON THE CONTACT AREA
AND 100u"/2.54um SnPb OVER 50u"/1.27um Ni ON THE TERMINATION AREA
POWER PIN: 30u"/0.76um Au OVER 50u"/1.27um Ni ON THE CONTACT AREA
AND 100u"/2.54um SnPb OVER 50u"/1.27um Ni ON THE TERMINATION AREA

51939-185LF: SIGNAL PIN: 30u"/0.76um Au OVER 50u"/1.27um Ni ON THE CONTACT AREA
AND 78u"/2.00um Sn OVER 50u"/1.27um Ni ON THE TERMINATION AREA
POWER PIN: 30u"/0.76um Au OVER 50u"/1.27um Ni ON THE CONTACT AREA
AND 78u"/2.00um Sn OVER 50u"/1.27um Ni ON THE TERMINATION AREA

PART NUMBER 51939-185LF MEETS EUROPEAN UNION DIRECTIVE AND OTHER COUNTRY REGULATIONS AS DECCRIDED IN GS-22-008.

THE HOUSING WILL WITHSTAND EXPOSURE TO 260° PEAK TEMPERATURE FOR 10 SECONDS IN A WAVE SOLDER APPLICATION WITH A CIRCUIT BOARD.

(4.) MANUFACTURER'S NAME, P/N, AND DATE CODE TO APPEAR ON THIS SURFACE.

5. PRODUCT SPECIFICATION GS-12-149.
APPLICATION SPECIFICATION BUS-20-067.

6. PACKAGED IN TRAYS.

PCB NOTES:

7. ALL HOLE DIAMETERS ARE FINISHED HOLE SIZE.

(8.) MOUNTING HOLES, WHERE APPLICABLE, ARE UNPLATED.

(9.) $\varnothing .0453 \pm .0010$ [1.151 $\pm$ 0.025] DRILLED HOLES PLATED WITH
.0003 [0.008] MIN SnPb OVER .001 [0.03]
TO .003 [0.08] Cu PLATING TO ACHIEVE
 $\varnothing .040 \pm .003$ [1.02 $\pm$.07] HOLE.

(10.) "DIM XXX" TO BE DETERMINED BY THE CUSTOMER.

(11.) CONNECTOR KEEP-OUT ZONE.

mat'l code				SEE NOTE 2		tolerances unless otherwise specified		CUSTOMER		A FCI www.fciconnect.com	
lfr	ecn no.	dr	date	linear	.XX±.01/0.X±0.3		COPY		title 4P+8S RIGHT ANGLE SOLDER HEADER		
B					.XXX±.005/0.XX±0.13		projection				
				angles	.XXX±.0020/0.XXX±0.051						
					0°±2°						
				dr	JM Guo	05/12/05	INCH/MM		product family		code
				enrg	STEVEN	05/12/05			PwrBlade		213
				chr	VICTOR	05/12/05	scale		size		sheet
				appd	JOSEPH HSIA	05/12/05	1:1		A		4 of 4
sheet index		revision sheet									

A

B

1 | 2

Pro/E

3 |

cage code 22526

4