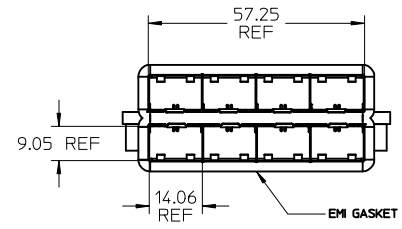
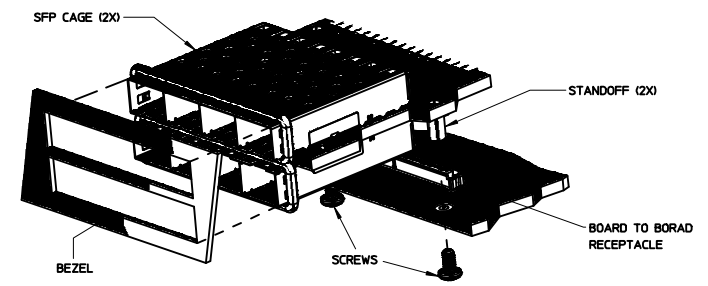


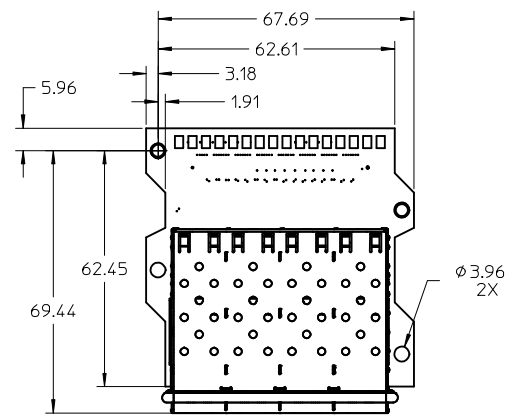
SIDE VIEW



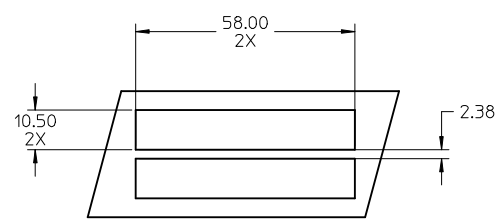
FRONT VIEW



ASSEMBLY PROCESS



TOP VIEW

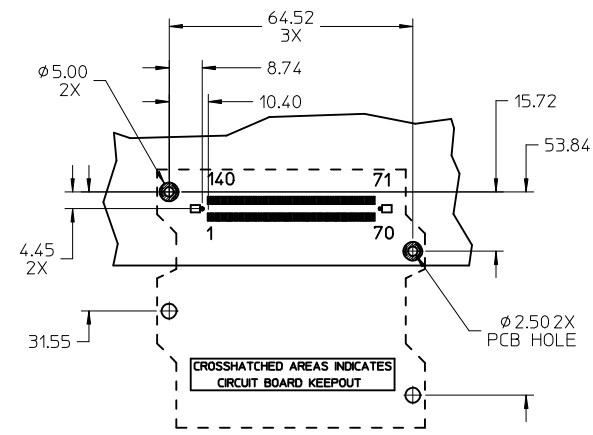
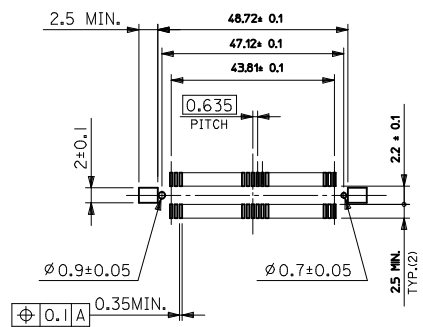


RECOMMENDED BEZEL CUTOUT

NOTES:

- 1.- ASSEMBLY ACCORDING TO IPC-A-610 CLASS 2.
- 2.- ROHS COMPLIANT ASSEMBLY.
- 3.- USE SCREW LENGTH 2-5 mm PLUS MOTHER BOARD THICKNESS.
- 4.- STANDOFF THREAD TO USE M3 SCREW, RECOMMENDED TORQUE 5 LB/IN +/- 0.5 LB/IN.
- 5.- RECOMMENDED CONNECTOR TO USE ON MOTHER BOARD: MOLEX P/N: 528851474.
- 6.- SFP CONNECTOR MOLEX P/N 744410001.
- 7.- FOR RECOMMENDED BEZEL DETAILS SEE CAGE DRAWING MOLEX P/N 739270411.
- 8.- FRONTAL HOLES CAN BE USED TO HOLD THE MODULE TO CHASSIS AND IMPROVE RETENTION WHEN USING A PROPER HEIGHT STANDOFF.

RECOMMENDED PCB PATTERN LAYOUT DETAIL



RECOMMENDED HOST BOARD LAYOUT

<b>ENTER DESCRIPTION</b> EC NO: MEX2009-0075 DRWNL: RUBIO 2009/04/27 CHKD: 2009/04/27 APPR: JSABATH 2009/04/28 REV: 7	<b>QUALITY SYMBOLS</b> ▽=0 ▽=0	<b>GENERAL TOLERANCES (UNLESS SPECIFIED)</b>		<b>DIMENSION STYLE</b> MM ONLY	<b>SCALE</b> 1:1	<b>DESIGN UNITS</b> METRIC	THIRD ANGLE PROJECTION	
		mm	INCH	DRAWN BY LRUBIO	DATE 2005/06/03	<b>TITLE</b> 2 X 4 STACKED SFP ASSY. ATCA CHASSIS		
		4 PLACES ± --- ± ---	± --- ± ---	CHECKED BY JSABATH	DATE 2005/06/03	<b>MOLEX INCORPORATED</b>		
		3 PLACES ± 0.25 ± ---	± --- ± ---	APPROVED BY ELOPEZ	DATE 2008/07/29	MATERIAL NO. 7952750002	DOCUMENT NO. SD-79527-5002	SHEET NO. 1 OF 2
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		ANGULAR ± --- °		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

FEMALE RECEPTACLE BOARD TO BOARD CONNECTOR

SIGNAL	PIN NO.	SIGNAL	PIN NO.
NC	70	VCCR 1	71
N2	69	VCCT 1	72
N3	68	IXFL 1	73
VEET 1	67	IXDS 1	74
RD 1	66	VEER 1	75
ID 1	65	MODE 1	76
VEET 1.1	64	MODE 0	77
VEER 1.1	63	VEER 2	78
RD 2	62	LOS 1	79
ID 2	61	VCCR 2	80
VEET 2.1	60	VCCT 2	81
VEER 2.1	59	LOS 2	82
RD 3	58	RATE 2	83
ID 3	57	MODE 2	84
VEET 3.1	56	MODE 1	85
VEER 3.1	55	MODE 2	86
RD 4	54	IXDS 2	87
ID 4	53	IXFL 2	88
VEET 4.1	52	VCCR 3	89
VEER 4.1	51	VCCT 3	90
RD 5	50	IXFL 3	91
ID 5	49	IXDS 3	92
VEET 5.1	48	MODE 3	93
VEER 5.1	47	MODE 4	94
RD 6	46	VEER 3	95
ID 6	45	RATE 3	96
VEET 6.1	44	LOS 3	97
VEER 6.1	43	VCCR 4	98
RD 7	42	VCCT 4	99
ID 7	41	LOS 2	100
VEET 7.1	40	RATE 4	101
VEER 7.1	39	MODE 4	102
RD 8	38	MODE 4	103
ID 8	37	MODE 2	104
VEET 8.1	36	IXDS 4	105
VEER 8.1	35	IXFL 4	106
RD 9	34	VCCR 5	107
ID 9	33	VCCT 5	108
VEET 9.1	32	IXFL 5	109
VEER 9.1	31	IXDS 5	110
RD 10	30	MODE 5	111
ID 10	29	MODE 5	112
VEET 10.1	28	MODE 5	113
VEER 10.1	27	RATE 5	114
RD 11	26	LOS 5	115
ID 11	25	VCCR 6	116
VEET 11.1	24	VCCT 6	117
VEER 11.1	23	LOS 6	118
RD 12	22	RATE 6	119
ID 12	21	MODE 6	120
VEET 12.1	20	MODE 6	121
VEER 12.1	19	MODE 2	122
RD 13	18	IXDS 6	123
ID 13	17	IXFL 6	124
VEET 13.1	16	VCCR 7	125
VEER 13.1	15	VCCT 7	126
RD 14	14	IXFL 7	127
ID 14	13	IXDS 7	128
VEET 14.1	12	MODE 7	129
VEER 14.1	11	MODE 7	130
RD 15	10	RATE 7	131
ID 15	9	LOS 7	132
VEET 15.1	8	VCCR 8	133
VEER 15.1	7	VCCT 8	134
RD 16	6	VCCR 8	135
ID 16	5	LOS 8	136
VEET 16.1	4	RATE 8	137
VEER 16.1	3	MODE 8	138
RD 17	2	MODE 8	139
IXDS 8	1	MODE 2	140

SFP1 CONNECTOR

SIGNAL	PIN NO.	SIGNAL	PIN NO.
VEET1	1	VEER3	11
IXFL1	2	RD-3	12
IXDS1	3	RD-4	13
MODE2	4	VEER2	14
MODE1	5	VCCR	15
MODE0	6	VCCT	16
RATE	7	VEET2	17
LOS	8	ID-1	18
VEER1	9	ID-2	19
VEER2	10	VEET3	20

SFP2 CONNECTOR

SIGNAL	PIN NO.	SIGNAL	PIN NO.
VEET1	1	VEER3	11
IXFL2	2	RD-2	12
IXDS2	3	RD-3	13
MODE2	4	VEER2	14
MODE1	5	VCCR	15
MODE0	6	VCCT	16
RATE	7	VEET2	17
LOS	8	ID-2	18
VEER1	9	ID-3	19
VEER2	10	VEET3	20

SFP3 CONNECTOR

SIGNAL	PIN NO.	SIGNAL	PIN NO.
VEET1	1	VEER3	11
IXFL3	2	RD-3	12
IXDS3	3	RD-3	13
MODE2	4	VEER2	14
MODE1	5	VCCR	15
MODE0	6	VCCT	16
RATE	7	VEET2	17
LOS	8	ID-3	18
VEER1	9	ID-4	19
VEER2	10	VEET3	20

SFP4 CONNECTOR

SIGNAL	PIN NO.	SIGNAL	PIN NO.
VEET1	1	VEER3	11
IXFL4	2	RD-4	12
IXDS4	3	RD-4	13
MODE2	4	VEER2	14
MODE1	5	VCCR	15
MODE0	6	VCCT	16
RATE	7	VEET2	17
LOS	8	ID-4	18
VEER1	9	ID-4	19
VEER2	10	VEET3	20

SFP5 CONNECTOR

SIGNAL	PIN NO.	SIGNAL	PIN NO.
VEET1	1	VEER3	11
IXFL5	2	RD-5	12
IXDS5	3	RD-5	13
MODE2	4	VEER2	14
MODE1	5	VCCR	15
MODE0	6	VCCT	16
RATE	7	VEET2	17
LOS	8	ID-5	18
VEER1	9	ID-5	19
VEER2	10	VEET3	20

SFP6 CONNECTOR

SIGNAL	PIN NO.	SIGNAL	PIN NO.
VEET1	1	VEER3	11
IXFL6	2	RD-6	12
IXDS6	3	RD-6	13
MODE2	4	VEER2	14
MODE1	5	VCCR	15
MODE0	6	VCCT	16
RATE	7	VEET2	17
LOS	8	ID-6	18
VEER1	9	ID-6	19
VEER2	10	VEET3	20

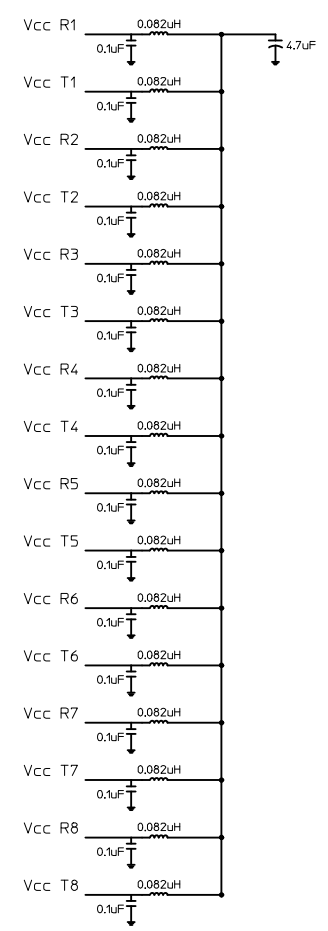
SFP7 CONNECTOR

SIGNAL	PIN NO.	SIGNAL	PIN NO.
VEET1	1	VEER3	11
IXFL7	2	RD-7	12
IXDS7	3	RD-7	13
MODE2	4	VEER2	14
MODE1	5	VCCR	15
MODE0	6	VCCT	16
RATE	7	VEET2	17
LOS	8	ID-7	18
VEER1	9	ID-7	19
VEER2	10	VEET3	20

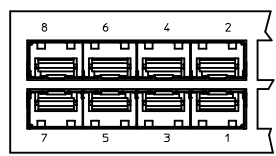
SFP8 CONNECTOR

SIGNAL	PIN NO.	SIGNAL	PIN NO.
VEET1	1	VEER3	11
IXFL8	2	RD-8	12
IXDS8	3	RD-8	13
MODE2	4	VEER2	14
MODE1	5	VCCR	15
MODE0	6	VCCT	16
RATE	7	VEET2	17
LOS	8	ID-8	18
VEER1	9	ID-8	19
VEER2	10	VEET3	20

795275002 STACKED SFP POWER FILTERING SCHEMATIC DIAGRAM



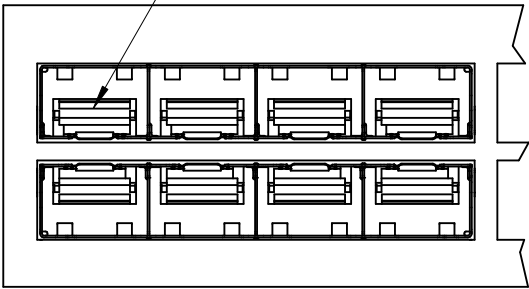
NOTE:  
 -ALL VEET'S, VEER'S AND NC'S ARE CONNECTED TO GND.  
 -ALL VCCT'S AND VCCR'S ARE CONNECTED TO VCC.



PORT NUMBER

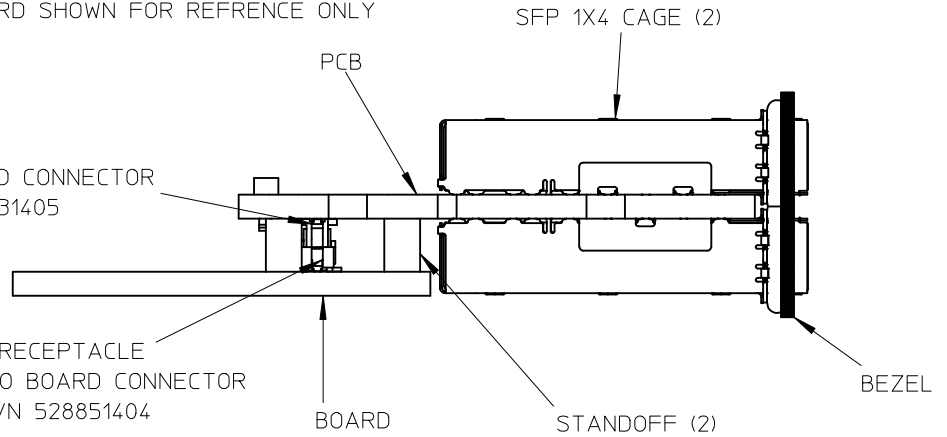
ENTER DESCRIPTION EC NO: MEX2009-0075 DRWNL:RUBIO CHKD: 2009/04/27 APPR: JSABATH 2009/04/28	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.25 ± --- 1 PLACE ± 0.25 ± --- ANGULAR ± ---°	DIMENSION STYLE MM ONLY DRAWN BY DATE LRUBIO 2005/06/03 CHECKED BY DATE JSABATH 2005/06/03 APPROVED BY DATE ELOPEZ 2008/07/29	SCALE 1:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION	TITLE 2 X 4 STACKED SFP ASSY. ATCA CHASSIS		
		MATERIAL NO. 795275002	DOCUMENT NO. SD-79527-5002	SHEET NO. 2 OF 2			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MOLEX INCORPORATED		
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

SFP CONNECTOR (8)  
MOLEX P/N 744410001



FEMALE RECEPTACLE BOARD TO BOARD CONNECTOR,  
BEZEL AND BOARD SHOWN FOR REFERENCE ONLY

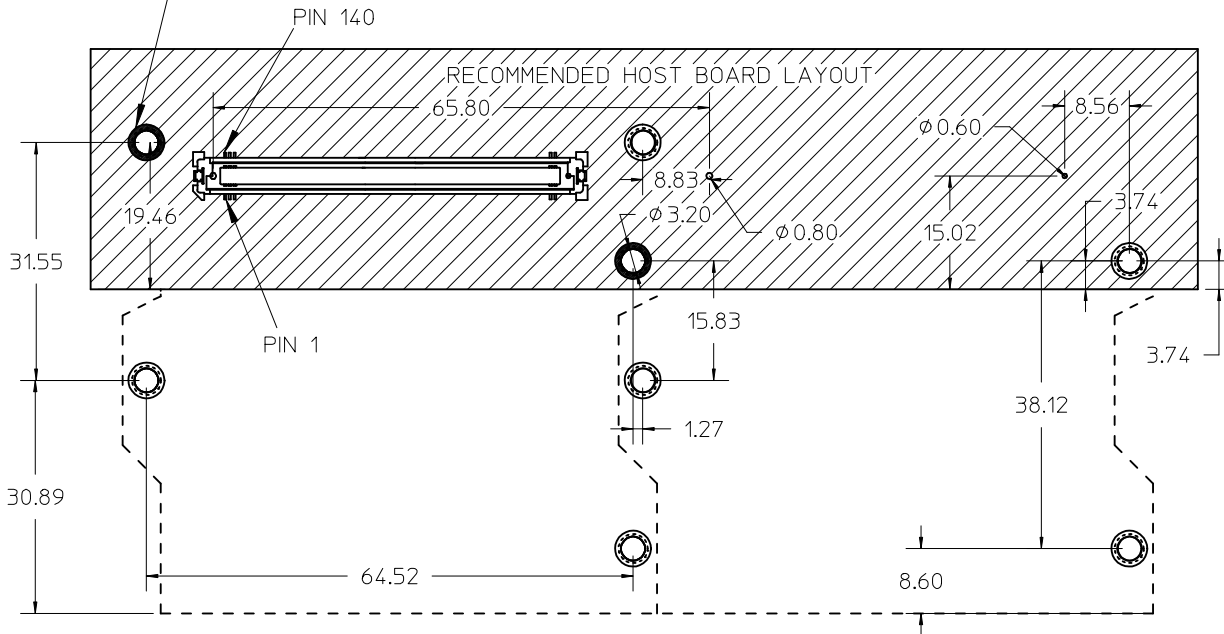
MALE HEADER  
BOARD TO BOARD CONNECTOR  
MOLEX P/N 535531405



FEMALE RECEPTACLE  
BOARD TO BOARD CONNECTOR  
MOLEX P/N 528851404

STANDOFF AREA  
 $\phi$  4.76 +/- 0.05 (4)

TOP VIEW



NOTES:

- 1. MATERIALS FOR 2x4 STACKED SFP ASSEMBLY:**

  - BOARD O BOARD CONNECTOR HOUSING: G.F LCP. WHITE, UL94V-0. TERMINAL: COPPER ALLOY.
  - VACUUM COVER: STAINLESS STEEL (t=0.2)
  - FITTING NAIL: COPPER ALLOY (t=0.25)
  - SFP CONNECTOR HOUSINGS: HIGH TEMPERATURE THERMOPLASTIC, GLASS FILLED, UL 94V-0, BLACK.
  - SFP CONNECTOR CONTACTS: COPPER ALLOY.
  - SFP CAGES: COPPER ALLOY.
  - EMI GASKET: CONDUCTIVE FOAM, UL 94V-0.
  - PCB: HIGH GRADE FR4.
  - STANDOFF: ALUMINUM.
- 2. PLATING:**

  - BOARD TO BOARD CONNECTOR:  
CONTACT AREA: GOLD 0.25  $\mu$ m MIN.  
SOLDER TAIL AREA: TIN-LEAD 1.0  $\mu$ m MIN.  
UNDER-PLATING: NICKEL 15  $\mu$ m MIN.  
FITTING NAIL: TIN-LEAD 3.5  $\mu$ m MIN.  
UNDER-PLATING: COPPER 1.0  $\mu$ m MIN.
  - SFP CONNECTOR CONTACTS:  
CONTACT AREA: 0.38 $\mu$ m MIN. GOLD OVER 2.54 MIN. NICKEL.  
SOLDER FOOT AREA: 2.54-5.09 $\mu$ m 90/10 TIN LEAD OVER 2.54 $\mu$ m MIN. NICKEL.
- 3. THIS ASSEMBLY CONFORMS TO COSMETIC SPEC. ES-75005-001.**

<b>ENTER DESCRIPTION</b> EC NO: MEX2009-0038 DRWN: LRUBIO 2008/12/11 CHKD: JSABATH 2008/12/11 APPR: JSABATH 2008/12/11	<b>QUALITY SYMBOLS</b> 	<b>GENERAL TOLERANCES (UNLESS SPECIFIED)</b>		<b>DIMENSION STYLE</b> MM ONLY	<b>SCALE</b> 1:1	<b>DESIGN UNITS</b> METRIC	THIRD ANGLE PROJECTION	
		4 PLACES $\pm$ --- $\pm$ --- 3 PLACES $\pm$ --- $\pm$ --- 2 PLACES $\pm$ 0.15 $\pm$ --- 1 PLACE $\pm$ 0.25 $\pm$ ---	mm    INCH	DRAWN BY    DATE LRUBIO    2004/08/30	<b>TITLE</b> 2X4 STACKED SFP ASSY, ATCA CHASSIS			
		ANGULAR $\pm$ 1/2°		CHECKED BY    DATE JSABATH    2004/08/30	<b>MOLEX INCORPORATED</b>			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPROVED BY    DATE MVILLASE    2004/08/30	MATERIAL NO. 795275002	DOCUMENT NO. SD-79527-5002	SHEET NO. 2 OF 3	

FEMALE RECEPTACLE BOARD TO BOARD CONNECTOR

Table with 4 columns: SIGNAL, PIN NO., SIGNAL, PIN NO. listing various electrical connections for the female receptacle connector.

SFP1 CONNECTOR

Table with 4 columns: SIGNAL, PIN NO., SIGNAL, PIN NO. for SFP1 connector.

SFP2 CONNECTOR

Table with 4 columns: SIGNAL, PIN NO., SIGNAL, PIN NO. for SFP2 connector.

SFP3 CONNECTOR

Table with 4 columns: SIGNAL, PIN NO., SIGNAL, PIN NO. for SFP3 connector.

SFP4 CONNECTOR

Table with 4 columns: SIGNAL, PIN NO., SIGNAL, PIN NO. for SFP4 connector.

SFP5 CONNECTOR

Table with 4 columns: SIGNAL, PIN NO., SIGNAL, PIN NO. for SFP5 connector.

SFP6 CONNECTOR

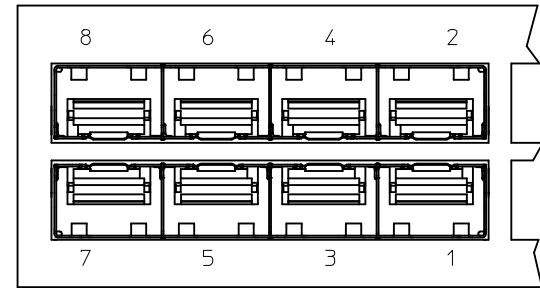
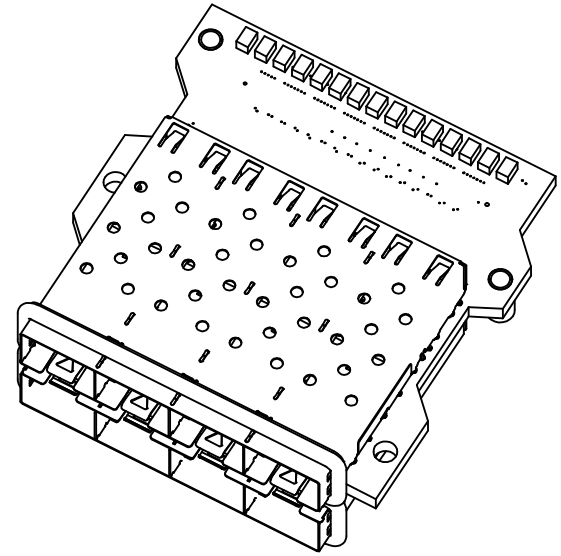
Table with 4 columns: SIGNAL, PIN NO., SIGNAL, PIN NO. for SFP6 connector.

SFP7 CONNECTOR

Table with 4 columns: SIGNAL, PIN NO., SIGNAL, PIN NO. for SFP7 connector.

SFP8 CONNECTOR

Table with 4 columns: SIGNAL, PIN NO., SIGNAL, PIN NO. for SFP8 connector.



NOTE:
-ALL VEET'S AND VEER'S ARE CONNECTED TO GND.
-ALL VCCT'S AND VCCR'S ARE CONNECTED TO VCC.

Technical drawing header containing: ENTER DESCRIPTION, QUALITY SYMBOLS, GENERAL TOLERANCES (UNLESS SPECIFIED), DIMENSION STYLE (MM ONLY), SCALE (1:1), DESIGN UNITS (METRIC), THIRD ANGLE PROJECTION, DRAWN BY (LRUBIO), DATE (2004/08/30), CHECKED BY (JSABATH), DATE (2004/08/30), APPROVED BY (MVILLASE), DATE (2004/08/30), MATERIAL NO. (795275002), DOCUMENT NO. (SD-79527-5002), SHEET NO. (3 OF 3), and a disclaimer: THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.