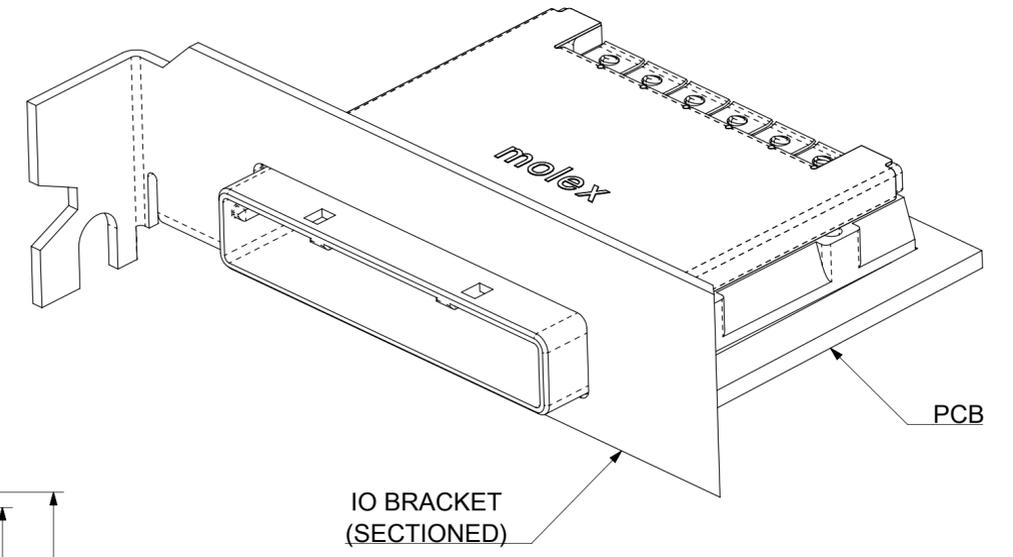
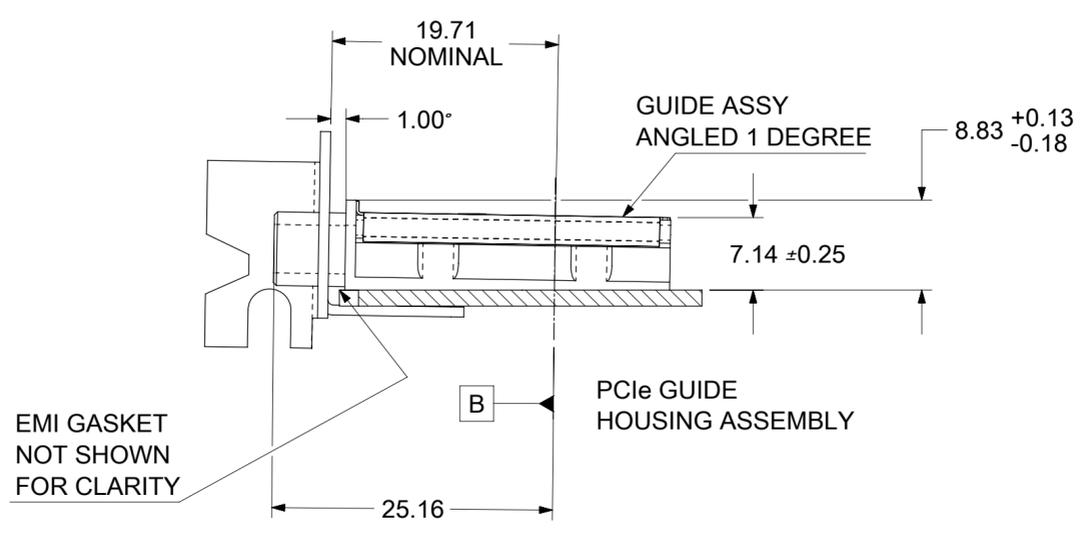


PCIe EXPANSION CARD APPLICATION SHOWN USING 1 DEGREE GUIDE HOUSING ASSEMBLY

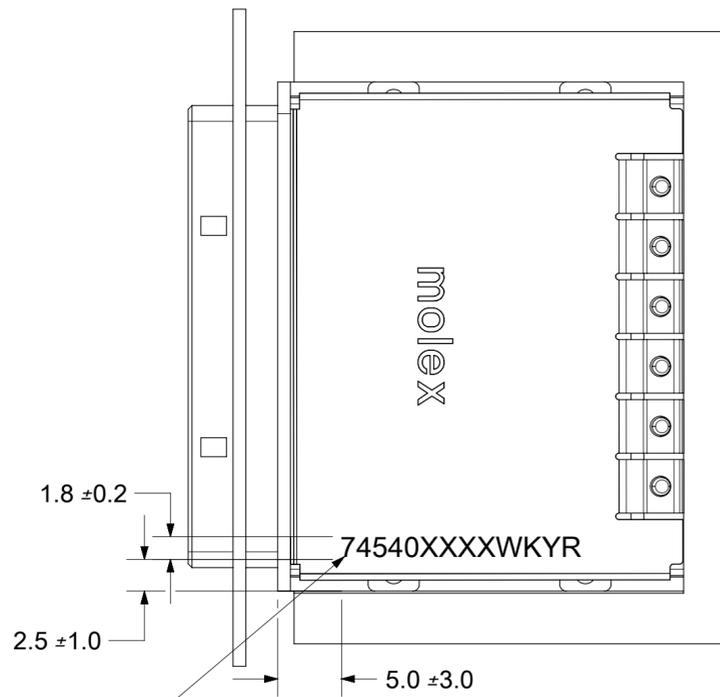


- NOTES:
- REF. PCI EXPRESS CARD ELECTROMECHANICAL SPECIFICATION, REV 1.0a FOR IO BRACKET WINDOW LOCATION.
  - PCB AND IO BRACKET SHOWN FOR REFERENCE ONLY.
  - REFER TO SHEET 2 FOR ATCA GUIDE HOUSING ASSY. SEE SHEET 3 FOR SCREEN LENGTH + TORQUE SPEC.
  - GUIDE HOUSING MOUNTING THREAD=M2 X 0.4
  - PCB NOTCH IS SHOWN FOR PCI COMPLIANT BOARD.
  - THIS PRODUCT MEETS THE RESTRICTIONS OF HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT (RoHS) DIRECTIVE (2002/95/EC)
  - PLATE GROUND PAD WITH EMERSION SILVER OR GOLD.
  - MATES WITH MOLEX 8X CABLE SERIES 74546-080X.
  - GUIDE HOUSING PEGS FOR ALIGNMENT ONLY. "DO NOT SOLDER"



iPass™ is a trademark of Molex

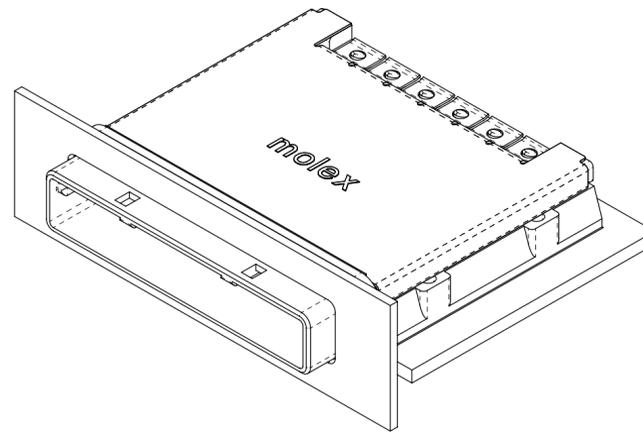
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																	
DIMENSION UNITS		SCALE		CURRENT REV DESC: OBSOLETE PART NO													
mm		2:1		EC NO: 625872 DRWN: AKUMAR19 2019/06/18 CHK'D: GB 2019/11/06 APPR: GGA 2019/11/12 INITIAL REVISION: DRWN: NMUTHARAYAPP 2018/12/13 APPR: RCHEN08 2019/01/15													
GENERAL TOLERANCES (UNLESS SPECIFIED)										I-PASS X8 EMI GUIDE HOUSING ASSEMBLY							
ANGULAR TOL ± 0.5°										PRODUCT CUSTOMER DRAWING							
4 PLACES ±										DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
3 PLACES ±										745400100		PSD		ASY		R1	
2 PLACES ± 0.05				MATERIAL NUMBER		CUSTOMER		SHEET NUMBER									
1 PLACE ± 0.1				SEE TABLE				1 OF 4									
0 PLACES ±																	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES									
				C-SIZE		74540											



P/N AND WEEK/YEAR DATE CODE TO BE PRINTED ON THE TOP OF COMPLETED CAGE ASSEMBLY AS SHOWN. SEE TABLE BELOW FOR DATE CODE INFORMATION.

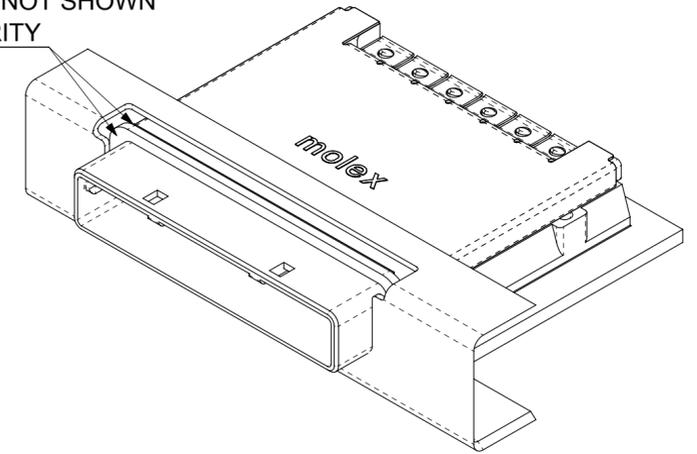
WEEK/YEAR DATE CODE TABLE

WK	WEEK OF THE YEAR 01 THRU 52 (EXAMPLE: 01= FIRST WEEK OF YEAR 52= LAST WEEK OF YEAR)
YR	19, 20, 21,, ETC.. (EXAMPLE: YEAR 2019= 19)

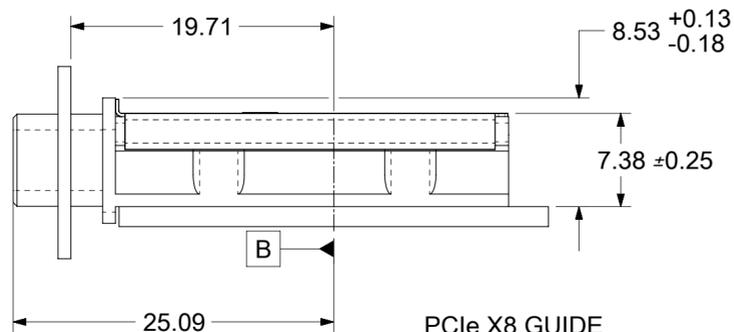
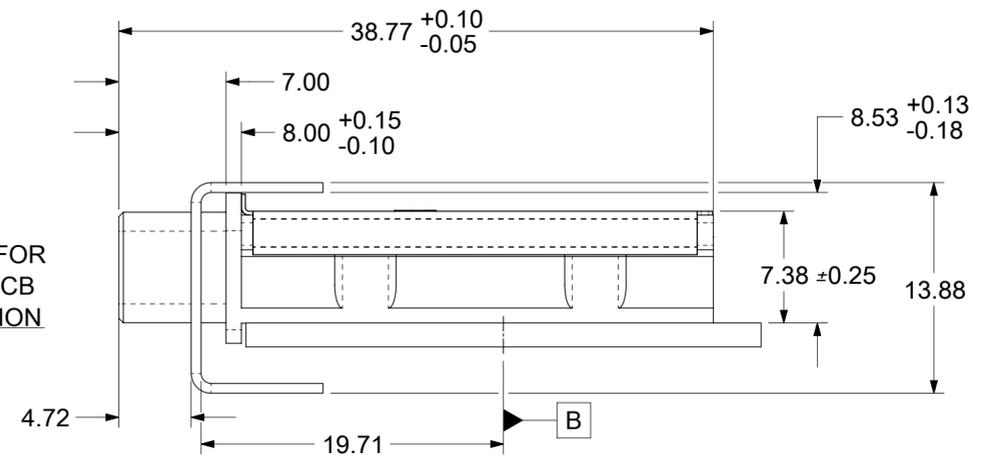
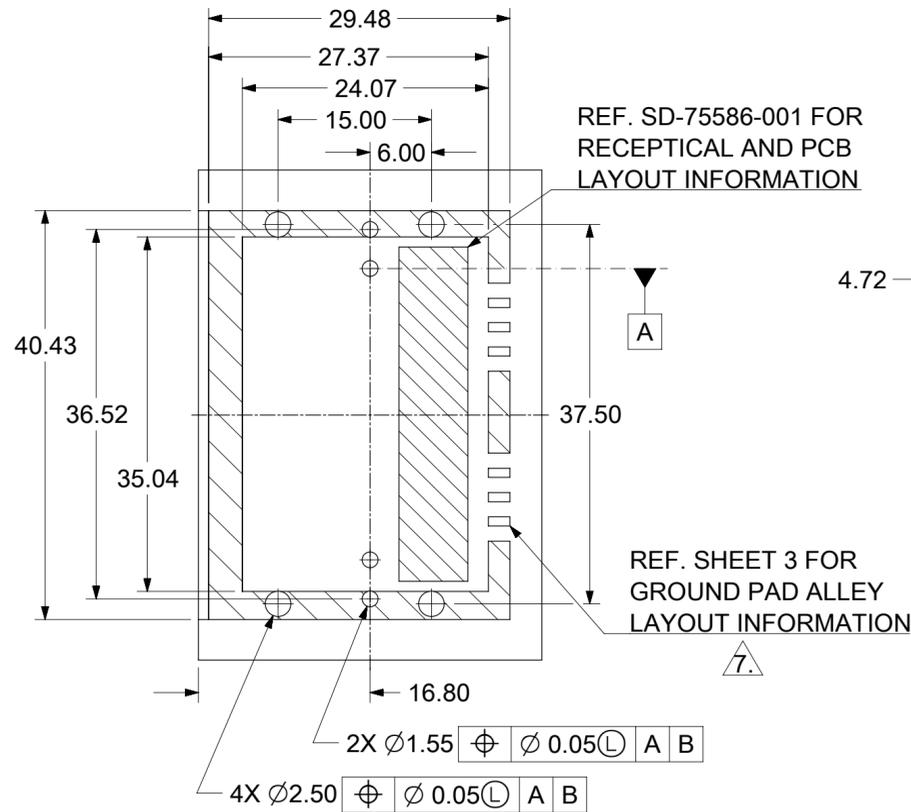


STANDARD APPLICATION SHOWN USING 0 DEG GUIDE HOUSING ASSEMBLY

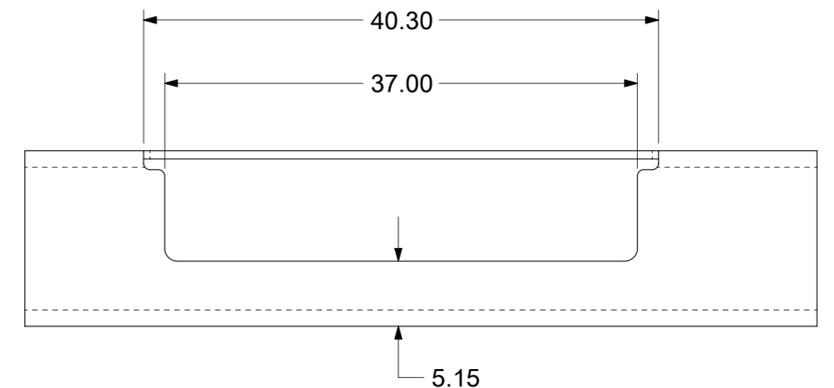
GASKETS NOT SHOWN FOR CLARITY



ADVANCED TCA APPLICATION USING 0 DEG GUIDE HOUSING ASSEMBLY



PCIe X8 GUIDE HOUSING ASSEMBLY



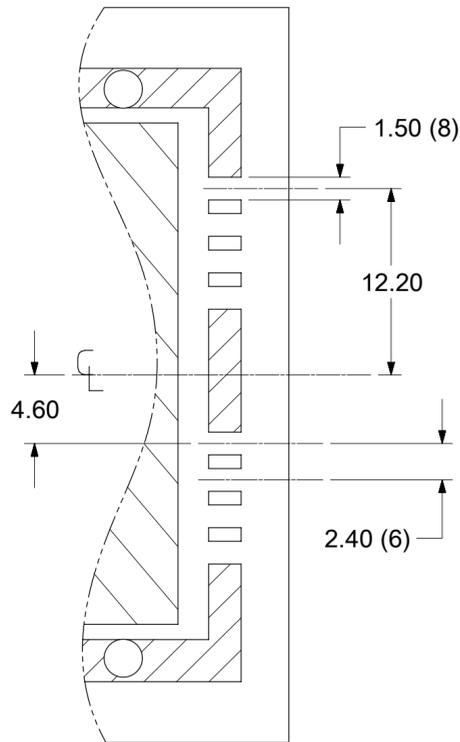
iPass™ is a trademark of Molex

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
DIMENSION UNITS		SCALE		CURRENT REV DESC: OBSOLETE PART NO				<b>molex</b>	
mm		1:1							
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 625872				I-PASS X8 EMI GUIDE HOUSING ASSEMBLY	
ANGULAR TOL ± 0.5°				DRWN: AKUMAR19 2019/06/18					
4 PLACES ±				CHK'D: GB 2019/11/06				PRODUCT CUSTOMER DRAWING	
3 PLACES ±				APPR: GGA 2019/11/12					
2 PLACES ± 0.05				INITIAL REVISION:				DOCUMENT NUMBER	
1 PLACE ± 0.1				DRWN: NMUTHARAYAPP 2018/12/13					
0 PLACES ±				APPR: RCHEN08 2019/01/15				745400100	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES	
				C-SIZE		74540		MATERIAL NUMBER	
								CUSTOMER	
								SHEET NUMBER	
								2 OF 4	
DOC TYPE		DOC PART		REVISION					
PSD		ASY		R1					

DOCUMENT STATUS	P1	RELEASE DATE	2019/11/12	07:19:34
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MOLEX P/N	DESCRIPTION	GEN
745400205	8x EMI Guide Housing Assembly - W/O Gasket - ATCA / 0 Deg	Gen 1

PCB THICKNESS	SCREW LENGTH	TORQUE(IN LBS)
1.6	5MM	2.3
2.38	6MM	2.3
3.2	6MM	2.3
	+4MM MAX	2.3



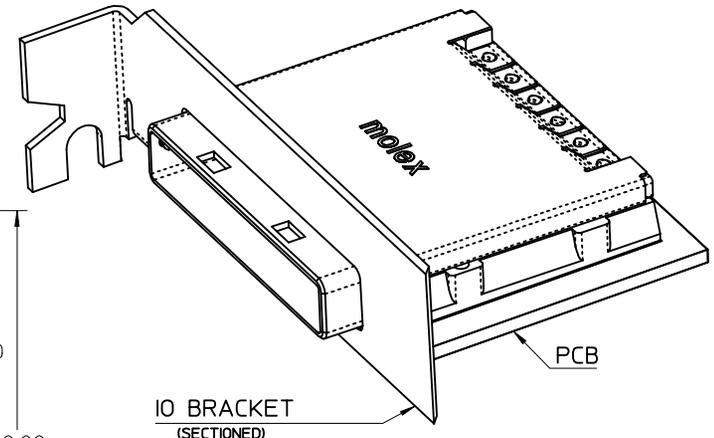
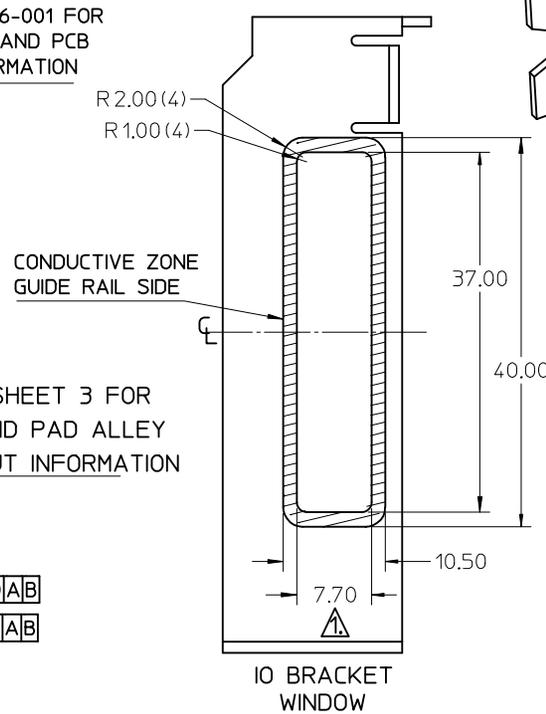
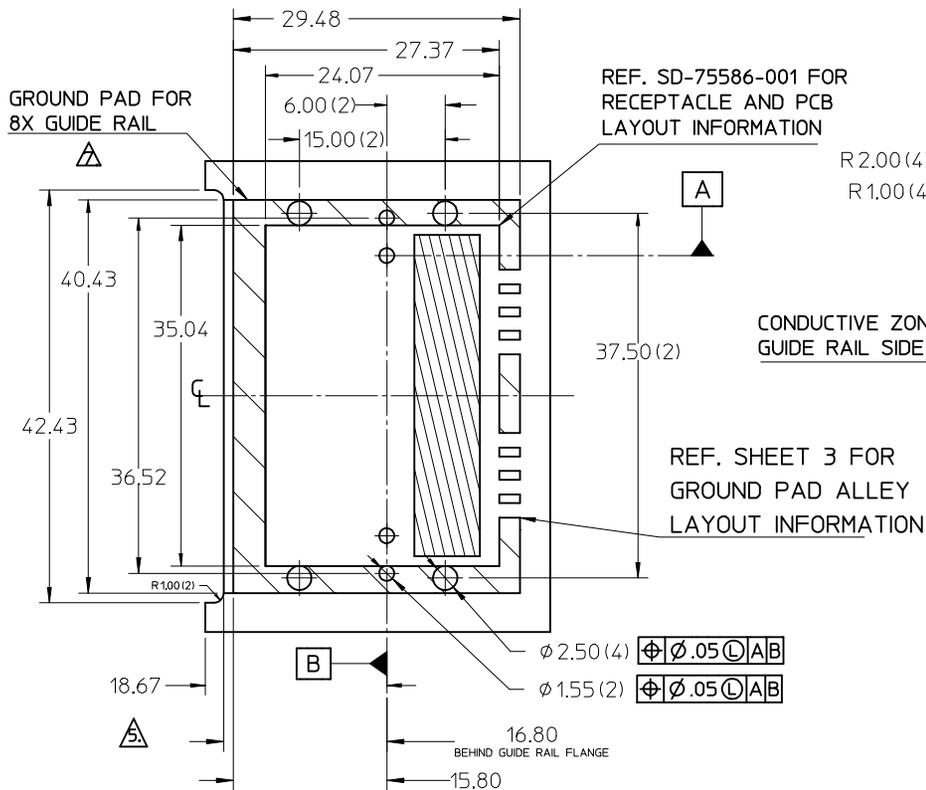
PARTIAL1  
SCALE 2:1  
GROUND PAD ALLEY  
LAYOUT INFORMATION



THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
DIMENSION UNITS		SCALE		CURRENT REV DESC: OBSOLETE PART NO				<b>molex</b>	
mm		1:1							
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 625872				I-PASS X8 EMI GUIDE HOUSING ASSEMBLY	
ANGULAR TOL ± 0.5°				DRWN: AKUMAR19 2019/06/18					
4 PLACES ±				CHK'D: GB 2019/11/06				PRODUCT CUSTOMER DRAWING	
3 PLACES ±				APPR: GGA 2019/11/12					
2 PLACES ± 0.05				INITIAL REVISION:				DOCUMENT NUMBER	
1 PLACE ± 0.1				DRWN: NMUTHARAYAPP 2018/12/13					
0 PLACES ±				APPR: RCHEN08 2019/01/15				745400100	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER	
				C-SIZE		74540		SEE TABLE	
								CUSTOMER	
								SHEET NUMBER	
								3 OF 4	

DOCUMENT STATUS	P1	RELEASE DATE	2019/11/12 07:19:34
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PCIe EXPANSION CARD APPLICATION SHOWN USING 1 DEGREE GUIDE HOUSING ASSEMBLY

- NOTES:
- REF. PCI EXPRESS CARD ELECTROMECHANICAL SPECIFICATION, REV 1.0a FOR IO BRACKET WINDOW LOCATION.
  - PCB AND IO BRACKET SHOWN FOR REFERENCE ONLY.
  - REFER TO SHEET 2 FOR ATCA GUIDE HOUSING ASSY. SEE SHEET 3 FOR SCREEN LENGTH + TORQUE SPEC.
  - GUIDE HOUSING MOUNTING THREAD= M2 X 0.4
  - PCB NOTCH IS SHOWN FOR PCI COMPLIANT BOARD.
  - THIS PRODUCT MEETS THE RESTRICTIONS OF HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT (RoHS) DIRECTIVE (2002/95/EC)
  - PLATE GROUND PAD WITH EMERSON SILVER OR GOLD.
  - MATES WITH MOLEX 8X CABLE SERIES 74546-080X.
  - GUIDE HOUSING PEGS FOR ALIGNMENT ONLY. 'DO NOT SOLDER'

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I-PASS X8 EMI GUIDE HOUSING ASSEMBLY

MOLEX INCORPORATED

DOCUMENT NO. SD-74540-100

SHEET NO. 1 OF 3

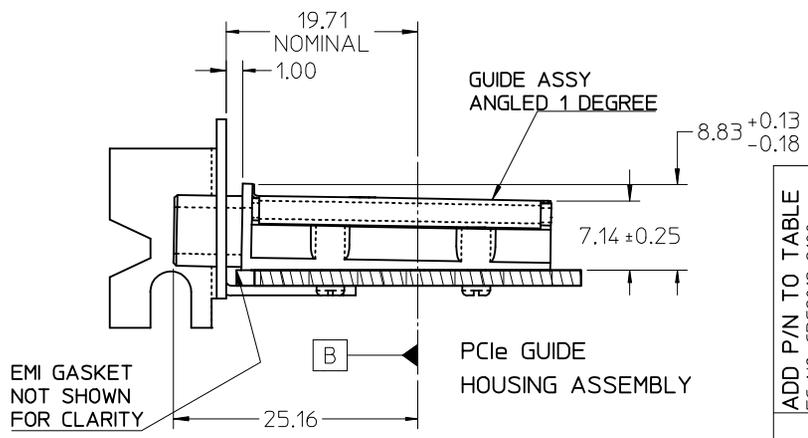
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	DRWN:TPRATT 2012/06/28
	CHKD:AJOHNSTON 2012/06/28
	APPR:KLLLOYD 2012/07/06
REV	DESCRIPTION

QUALITY SYMBOLS	▽=0
	▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	INCH
	4 PLACES ± ---	± ---
	3 PLACES ± ---	± ---
	2 PLACES ± 0.05	± ---
	1 PLACE ± 0.10	± ---
	ANGULAR ± 1/2°	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE	
MM ONLY	
DRAWN BY	DATE
BREED	2004/11/11
CHECKED BY	DATE
DDOYE	2004/11/11
APPROVED BY	DATE
DDOYE	2004/11/11
MATERIAL NO.	SEE TABLE
SIZE	B

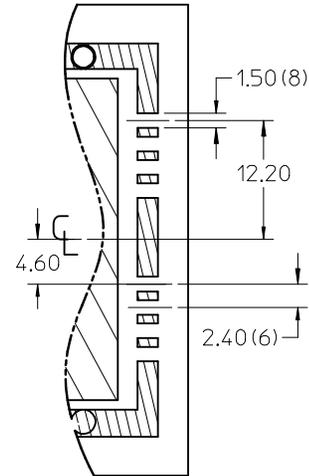
SCALE	2:1	DESIGN UNITS	METRIC	THIRD ANGLE PROJECTION
MOLEX INCORPORATED				
DOCUMENT NO. SD-74540-100				SHEET NO. 1 OF 3
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				





MOLEX P/N	DESCRIPTION	GEN
745400100	8x EMI Guide Housing Assembly - PCIe / 1 Deg	Gen 1
745400200	8x EMI Guide Housing Assembly - ATCA / 0 Deg	Gen 1
745400205	8x EMI Guide Housing Assembly - W/O Gasket - ATCA / 0 Deg	Gen 1

PCB THICKNESS	SCREW LENGTH	TORQUE (IN LBS)
1.6 (.063")	5MM	2.3
2.38 (.093")	6MM	2.3
3.2 (.125")	6MM	2.3
	+4MM MAX	2.3

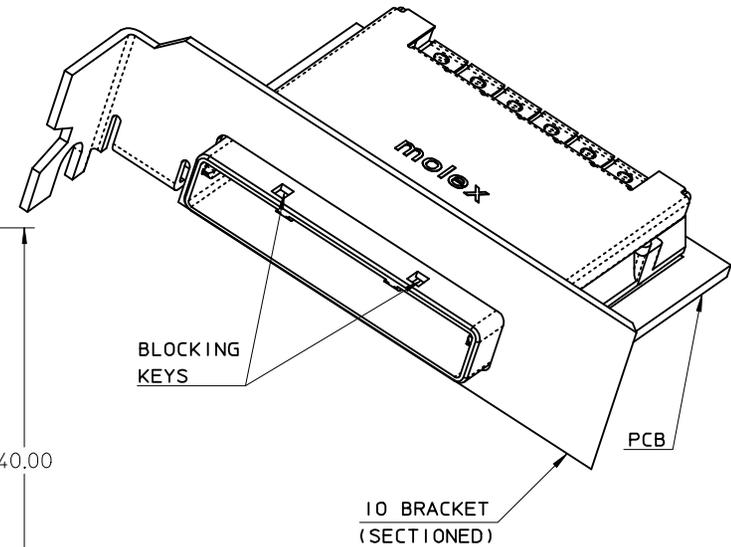
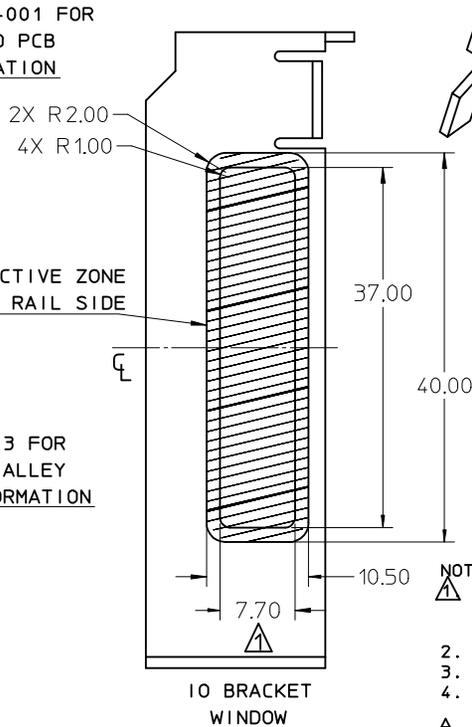
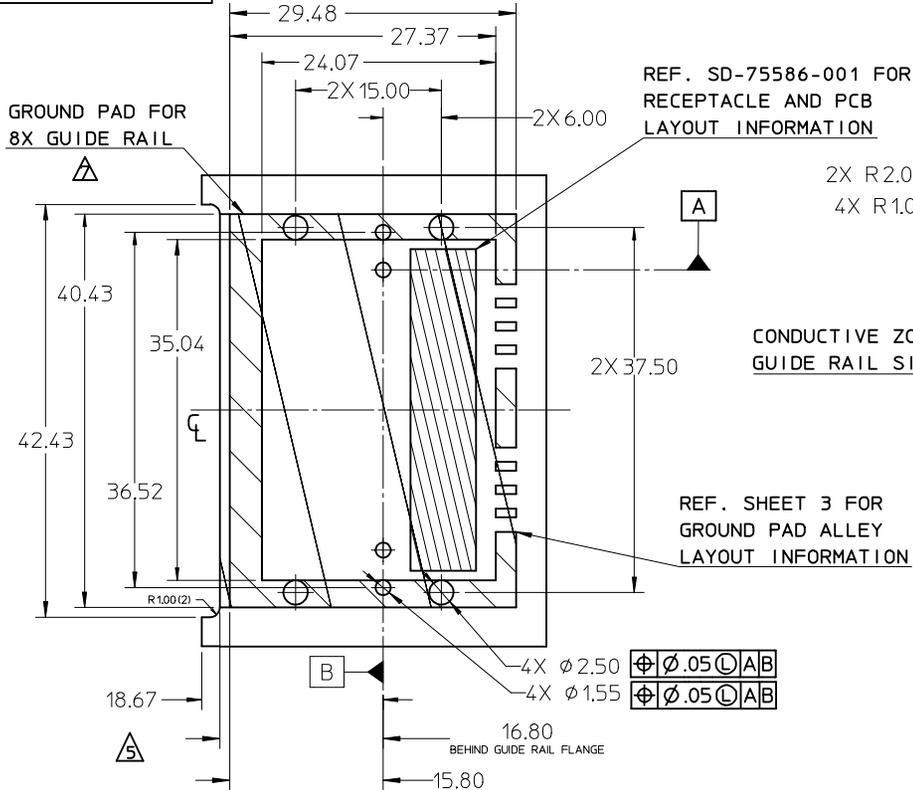


PARTIAL1  
SCALE 2:1  
GROUND PAD ALLEY  
LAYOUT INFORMATION



ADD P/N TO TABLE EC NO: CPG2012-2100 DRAWN: TPRAATT 2012/06/28 CHKD: A JOHNSTON 2012/06/28 APPR: K LLOYD 2012/07/06	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION			
				MM ONLY		1:1	METRIC				
				mm	INCH	DRAWN BY DATE		TITLE			
				4 PLACES ± --- ± ---		BREED	2004/11/11	I-PASS X8 EMI GUIDE HOUSING ASSEMBLY			
		3 PLACES ± --- ± ---		CHECKED BY DATE							
		2 PLACES ± 0.05 ± ---		DDOYE	2004/11/11	MOLEX INCORPORATED					
		1 PLACE ± 0.10 ± ---		APPROVED BY DATE							
		ANGULAR ± 1/2°		MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-74540-100		3 OF 3			
				SIZE B		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

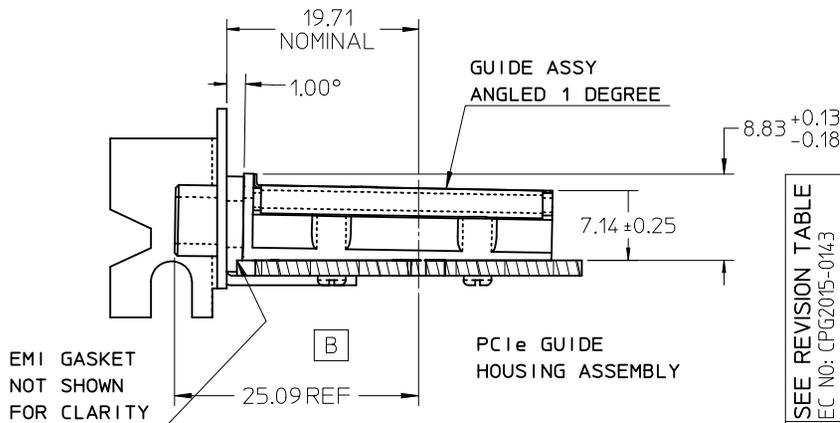
MM : TM-74540-0206



PCIe EXPANSION CARD APPLICATION SHOWN USING 1 DEGREE GUIDE HOUSING ASSEMBLY

- NOTES:
- REF. PCI EXPRESS CARD ELECTROMECHANICAL SPECIFICATION, REV 1.0a FOR 10 BRACKET WINDOW LOCATION.
  - PCB AND 10 BRACKET SHOWN FOR REFERENCE ONLY.
  - REFER TO SHEET 2 FOR ATCA GUIDE HOUSING ASSY.
  - GUIDE HOUSING MOUNTING THREAD= M2 X 0.4, SEE SHEET 3 FOR SCREW LENGTH + TORQUE SPEC.
  - PCB NOTCH IS SHOWN FOR PCI COMPLIANT BOARD.
  - THIS PRODUCT MEETS THE RESTRICTION OF HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT (RoHS) DIRECTIVE (2002/95/EC).
  - PLATE GROUND PAD WITH EMERSION SILVER OR GOLD.
  - MATES WITH MOLEX 8X CABLE SERIES 74546-080X.
  - GUIDE HOUSING PEGS FOR ALIGNMENT ONLY, DO NOT SOLDER.
  - MATERIAL: NI PLATED ZINC DIECAST.

iPass™ is a trademark of Molex



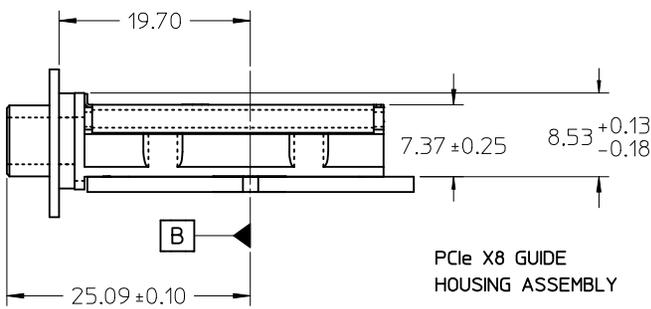
SEE REVISION TABLE EC NO: CPG2015-0143 DRAWN: WANG07 2014/07/11 CHKD: SYANG16 2014/07/14 APPR: RCHEN08 2014/07/28	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	mm INCH	MM ONLY	2:1	METRIC	
	▽=0	4 PLACES ± --- ± ---	DRAWN BY DATE	TITLE		
	▽=0	3 PLACES ± --- ± ---	JERWIN 2006/05/25	I-PASS X8 EMI GUIDE HOUSING ASSEMBLY W/ KEYS		
	▽=0	2 PLACES ± 0.05 ± ---	CHECKED BY DATE	molex		

1 PLACE ± 0.10 ± ---	APPROVED BY DATE	MATERIAL NO.	DOCUMENT NO.	SHEET NO.
0 PLACE ± ±	DDOYE 2006/05/25	SEE P/N TABLE	SD-74540-101	1 OF 4

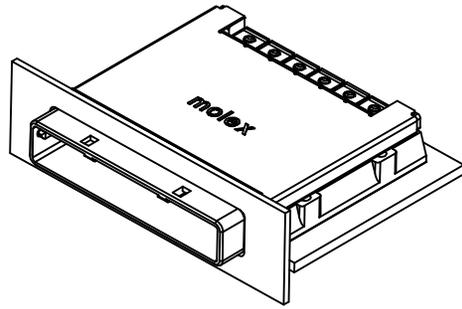
ANGULAR ± 1/2°  
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

SIZE B  
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

10 9 8 7 6 5 4 3 2 1

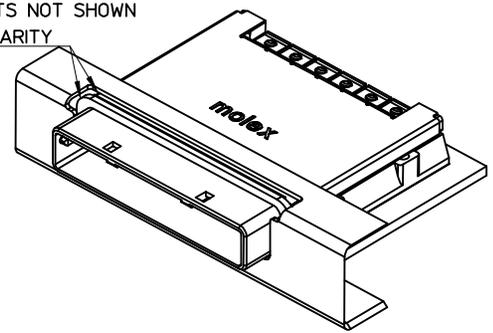


PCIe X8 GUIDE HOUSING ASSEMBLY

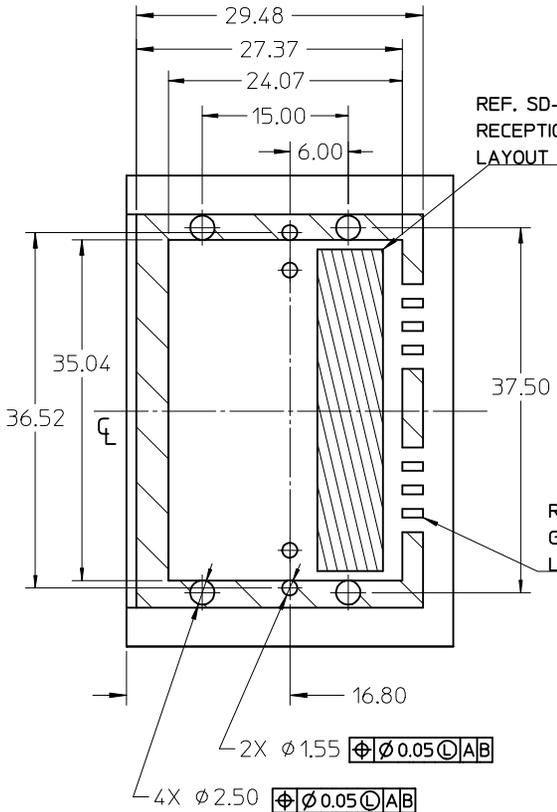


STANDARD APPLICATION SHOWN USING 0 DEG GUIDE HOUSING ASSEMBLY

GASKETS NOT SHOWN FOR CLARITY

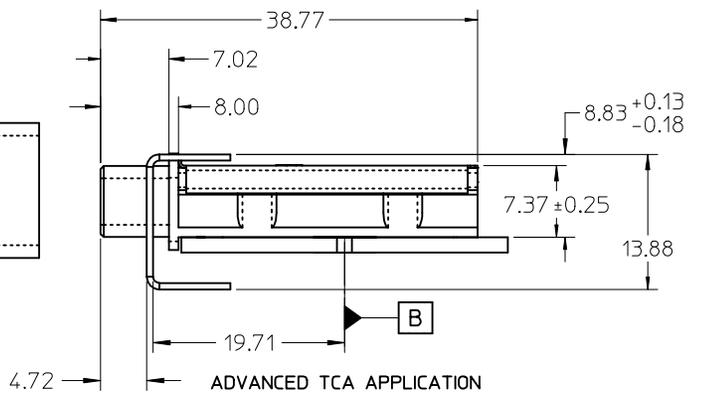
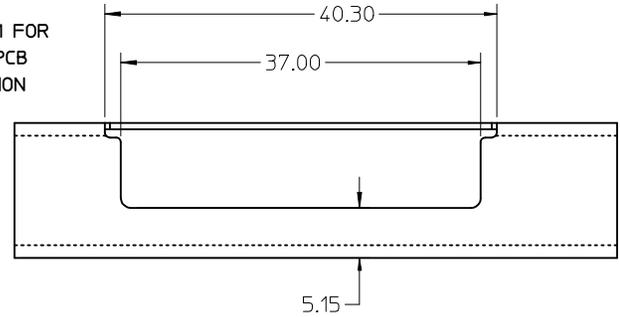


ADVANCED TCA APPLICATION USING 0 DEG GUIDE HOUSING ASSEMBLY



REF. SD-75586-001 FOR RECEPTAL AND PCB LAYOUT INFORMATION

REF. SHEET 3 FOR GROUND PAD ALLEY LAYOUT INFORMATION



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SEE REVISION TABLE

EC NO: CPG2015-0143	2014/07/11
DRW:NEWANG07	2014/07/14
CHKD:SYANG16	2014/07/28
APPR:RCHEN08	

REV	DESCRIPTION
1	QUALITY SYMBOLS
2	QUALITY SYMBOLS
3	QUALITY SYMBOLS

GENERAL TOLERANCES (UNLESS SPECIFIED)	
	mm INCH
4 PLACES	± --- ± ---
3 PLACES	± --- ± ---
2 PLACES	± 0.05 ± ---
1 PLACE	± 0.10 ± ---
0 PLACE	± ±
ANGULAR ± 1/2°	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

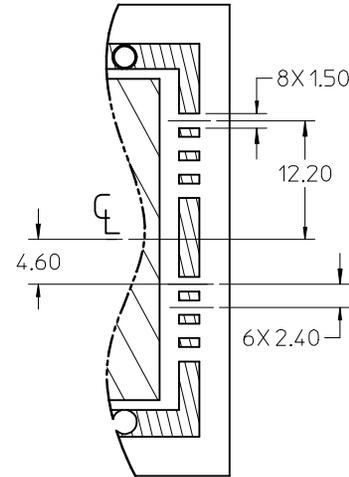
DIMENSION STYLE	
MM ONLY	
DRAWN BY	DATE
JERWIN	2006/05/25
CHECKED BY	DATE
BREED	2006/05/25
APPROVED BY	DATE
DDOYE	2006/05/25
MATERIAL NO.	
SEE P/N TABLE	

SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
2:1	METRIC	☉ □
TITLE		
I-PASS X8 EMI GUIDE HOUSING ASSEMBLY W/ KEYS		
<b>molex</b>		
DOCUMENT NO.	SHEET NO.	
SD-74540-101	2 OF 4	

9 8 7 6 5 4 3 2 1

MOLEX P/N	DESCRIPTION	GEN
745400101	8x EMI Guide Housing Assembly - PCIe / 1 Deg	Gen 1
745400201	8x EMI Guide Housing Assembly - ATCA / 0 Deg	Gen 1

PCB THICKNESS	SCREW LENGTH	TORQUE (IN LBS)
1.6 (.063")	5MM	2.3
2.38 (.093")	6MM	2.3
3.2 (.125")	6MM	2.3
X	+4MM MAX	2.3



GROUND PAD ALLEY  
LAYOUT INFORMATION



SEE REVISION TABLE EC NO: CPG2015-0143 DRAWN BY: DRWAHEWANG07 2014/07/11 CHKD: SYANG16 2014/07/14 APPR: RCHEN08 2014/07/28	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0	mm INCH	MM ONLY	2:1	METRIC	
	▽=0	4 PLACES ± --- ± ---	DRAWN BY DATE			I-PASS X8 EMI GUIDE HOUSING ASSEMBLY W/ KEYS
	▽=0	3 PLACES ± --- ± ---	JERWIN 2006/05/25			
	2 PLACES ± 0.05 ± ---	CHECKED BY DATE			<b>molex</b> SD-74540-101	
	1 PLACE ± 0.10 ± ---	BREED 2006/05/25				
	0 PLACE ± ±	APPROVED BY DATE				
		DDOYE 2006/05/25				
		ANGULAR ± 1/2°	MATERIAL NO.			SHEET NO.
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE P/N TABLE			3 OF 4
			SIZE B	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

REVISION HISTORY

DATE (YEAR/MONTH/DAY)	REV	DESCRIPTION
2013/12/18	H	1. ADDED NOTES 10. MATERIAL: Ni PLATED ZINC DIECAST. [SHT 1] 2. CHANGED W/ NEW MOLEX FORMAT
2014/07/11	J	1. CHANGED 25.16 TO 25.09REF TO MEET PCI EXPRESS EXTERNAL CABLING SPECIFICATION @A9 [SHEET 1] 2. ADDED MM 3D NO. @F10 [SHEET 1] 3. THE MOLEX CHARACTER FIGURE UPDATE @F2 [SHEET 1], @F2 F5 [SHEET 2] 4. CHANGED 25.09 TO 25.09+/-0.1 @E9 [SHEET 2]

SEE REVISION TABLE EC NO: CPG2015-0143 DRW:NEWANG07 2014/07/11 CHKD:SYANG16 2014/07/14 APPR:RCHEN08 2014/07/28	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽/0	mm INCH	MM ONLY	1:1	METRIC	
	▽/0	4 PLACES ± --- ± ---	DRAWN BY DATE	TITLE		
	▽/0	3 PLACES ± --- ± ---	JERWIN 2006/05/25	I-PASS X8 EMI GUIDE HOUSING ASSEMBLY W/ KEYS		
	▽/0	2 PLACES ± 0.05 ± ---	CHECKED BY DATE			
	1 PLACE ± 0.10 ± ---	BREED 2006/05/25				
	0 PLACE ± ±	APPROVED BY DATE	MATERIAL NO.	DOCUMENT NO.	SHEET NO.	
	ANGULAR ±1/2°	DDOYE 2006/05/25	SEE P/N TABLE	SD-74540-101	4 OF 4	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SIZE B	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			