

	PEG TO PEG	FIRST PAD TO LAST PAD	CENTERLINE TO PAD	CENTERLINE TO PAD	CONNECTOR WIDTH SHELL PEG TO PEG	SHELL FOOTPRINT WIDTH	CENTERLINE TO PAD EDGE
CIRCUIT SIZE	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	DIM 'E'	DIM 'F'	DIM 'G'
36	16.00	14.00	6.60	7.00	17.80	20.80	8.825
50	21.60	19.60	9.40	9.80	23.40	26.40	11.625
68	28.80	26.80	13.00	13.40	30.60	33.60	15.225

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: REMOVED OBSOLETE PART NUMBERS AS PER PCN#516673				<div>molex</div>				
MM		5:1										
GENERAL TOLERANCES (UNLESS SPECIFIED)												
ANGULAR TOL		± 0.5°										
4 PLACES		±										
3 PLACES		±										
2 PLACES		± 0.130		STATUS: Production DRWN: Sampreet S Mirajkar 2026-02-09 CHK'D: Ganesh Rao B 2026-03-18 APPR: Gurunandan GA 2026-03-20				I-PASS R/A CONNECTOR INTERNAL ASSY W/SHELL 0.8MM PITCH I/O				
1 PLACE		± 0.25										
0 PLACES		±						PRODUCT CUSTOMER DRAWING				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION									DOCUMENT NUMBER	
				DRAWING		SERIES		SD-75783-001		PSD	001	F3
		C-SIZE		75783		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER		
						SEE TABLE		GENERAL MARKET		2 OF 12		

Diagram illustrating the footprint and design requirements for a 36-pin connector (36 CIRCUIT SHOWN).

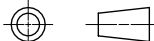
Dimensions and Labels:

- CONNECTOR FOOTPRINT:** The area containing the 36 pins, divided into two rows (A and B).
- CONNECTOR FOOTPRINT EXPOSED TRACES/VIAS ALLOWED:** The area around the connector footprint where exposed traces and vias are permitted.
- HOUSING LOCATOR PEG HOLE:** Two circular holes used for alignment during mating.
- ROW B DESIGNATOR:** Label 'B' indicating the top row of pins.
- ROW A DESIGNATOR:** Label 'A' indicating the bottom row of pins.
- SHELL FOOTPRINT:** The area surrounding the connector footprint, defined by the housing locator peg holes.
- FRONT EDGE OF PCB:** The edge of the printed circuit board.

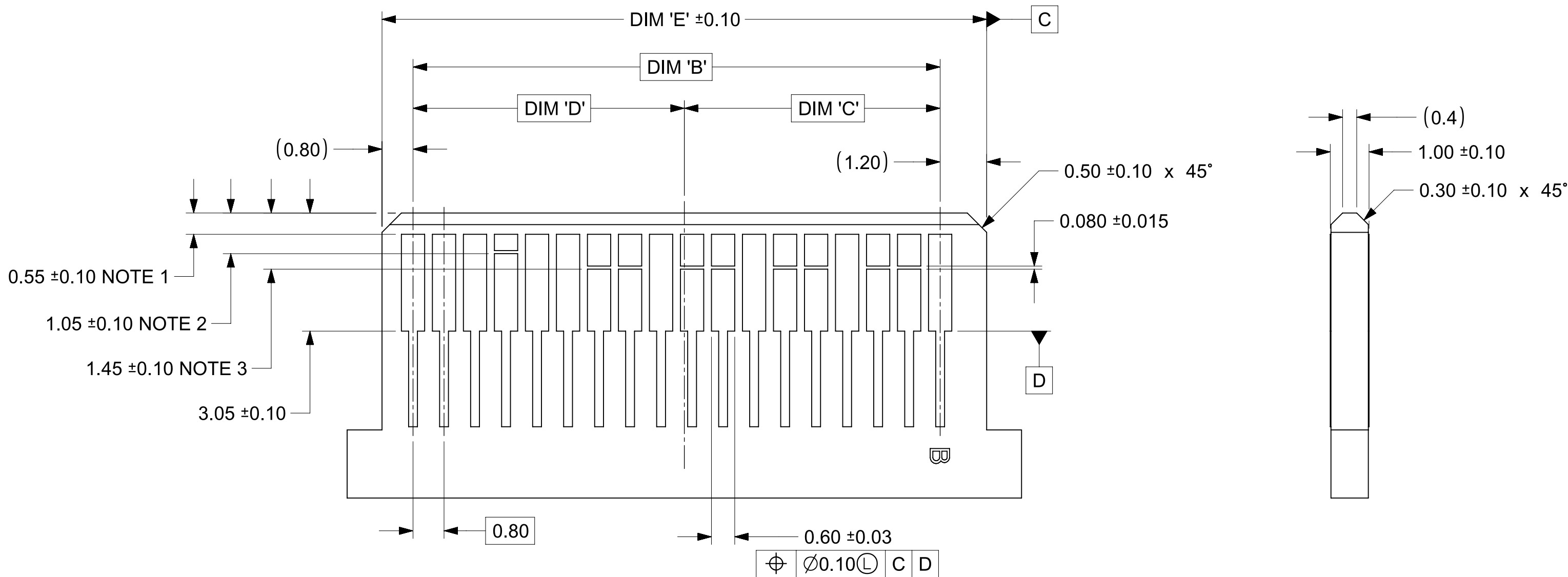
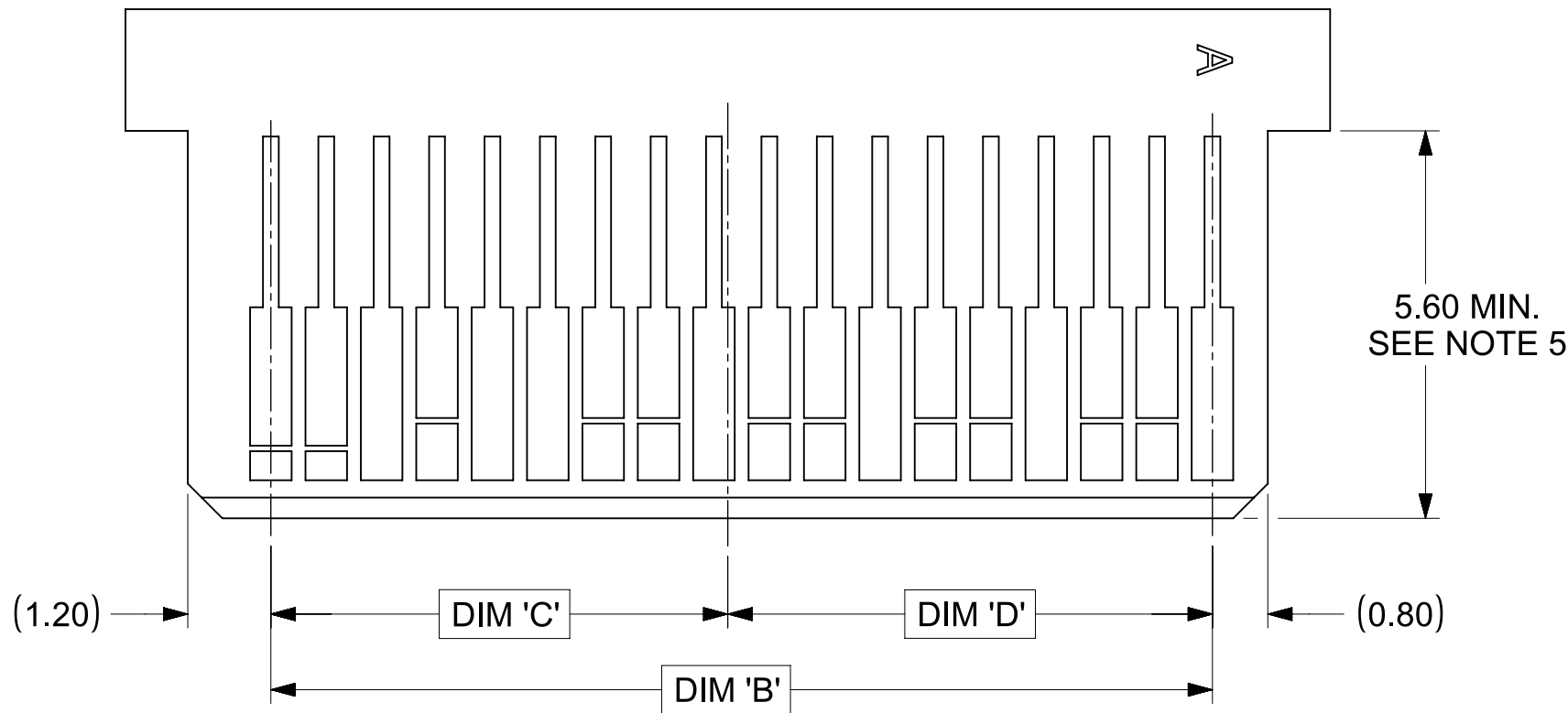
Design Requirements:

- NO EXPOSED TRACES**
- NO EXPOSED VIAS**
- AREA MUST BE CLEAR OF ANY OBSTRUCTION THAT WOULD IMPEDE MATING OF THE PLUG TO THE SHELL OR RECEPTACLE**

NOTE: IF RECEPTACLE IS USED, THE PLUG MUST BE MATED TO THE RECEPTACLE.

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DIMENSION UNITS MM		SCALE 5:1		CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#516673		molex			
GENERAL TOLERANCES (UNLESS SPECIFIED)									
ANGULAR TOL ± 0.5°						I-PASS R/A CONNECTOR INTERNAL ASSY W/SHELL 0.8MM PITCH I/O			
4 PLACES ±									
3 PLACES ±									
2 PLACES ± 0.130		STATUS: Production DRWN: Sampreet S Mirajkar 2026-02-09 CHK'D: Ganesh Rao B 2026-03-18 APPR: Gurunandan GA 2026-03-20		PRODUCT CUSTOMER DRAWING					
1 PLACE ± 0.25				DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION	
0 PLACES ±				SD-75783-001		PSD	001	F3	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION 	DRAWING C-SIZE	SERIES 75783	MATERIAL NUMBER SEE TABLE	CUSTOMER GENERAL MARKET	SHEET NUMBER 3 OF 12

MATING INTERFACE (FOR REFERENCE ONLY)



36 CIRCUIT SHOWN

- NOTES:
1. PAD CONFIGURATION FOR FIRST MATE.
 2. PAD CONFIGURATION FOR SECOND MATE.
 3. PAD CONFIGURATION FOR THIRD MATE.
(HIGH SPEED SIGNALS)
 4. FOR PIN ASSIGNMENTS AND MATING SEQUENCE
(1ST, 2ND, 3RD), SEE APPLICABLE
SPECIFICATION.
 5. MINIMUM STEP REQUIRED IF PCB MADE
WIDER THAN TONGUE.

CIRCUIT SIZE	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	DIM 'E'
36	18	13.60	6.60	7.00	15.60
50	25	19.20	9.40	9.80	21.20
68	34	26.40	13.00	13.40	28.40

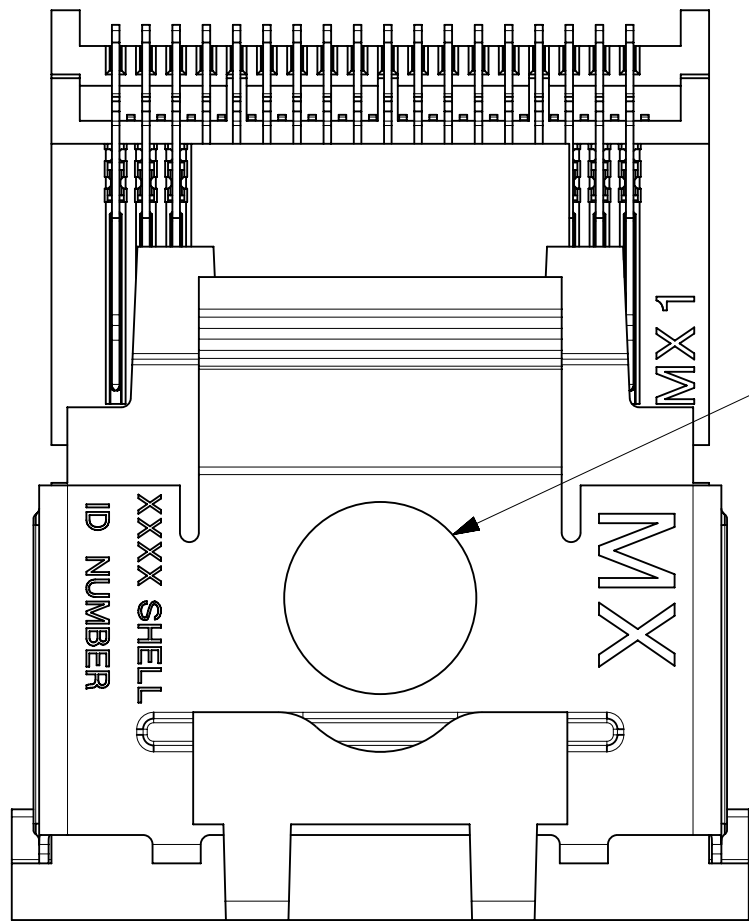
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
DIMENSION UNITS	SCALE	CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#516673							
MM	10:1								
GENERAL TOLERANCES (UNLESS SPECIFIED)		STATUS: Production DRWN: Sampreet S Mirajkar 2026-02-09 CHK'D: Ganesh Rao B 2026-03-18 APPR: Gurunandan GA 2026-03-20							
ANGULAR TOL	± 0.5°								
4 PLACES	±								
3 PLACES	±								
2 PLACES	± 0.130								
1 PLACE	± 0.25	THIRD ANGLE PROJECTION							
0 PLACES	±								
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER			
		C-SIZE	75783	SEE TABLE	GENERAL MARKET	4 OF 12			

I-PASS R/A CONNECTOR
INTERNAL ASSY W/SHELL 0.8MM PITCH I/O

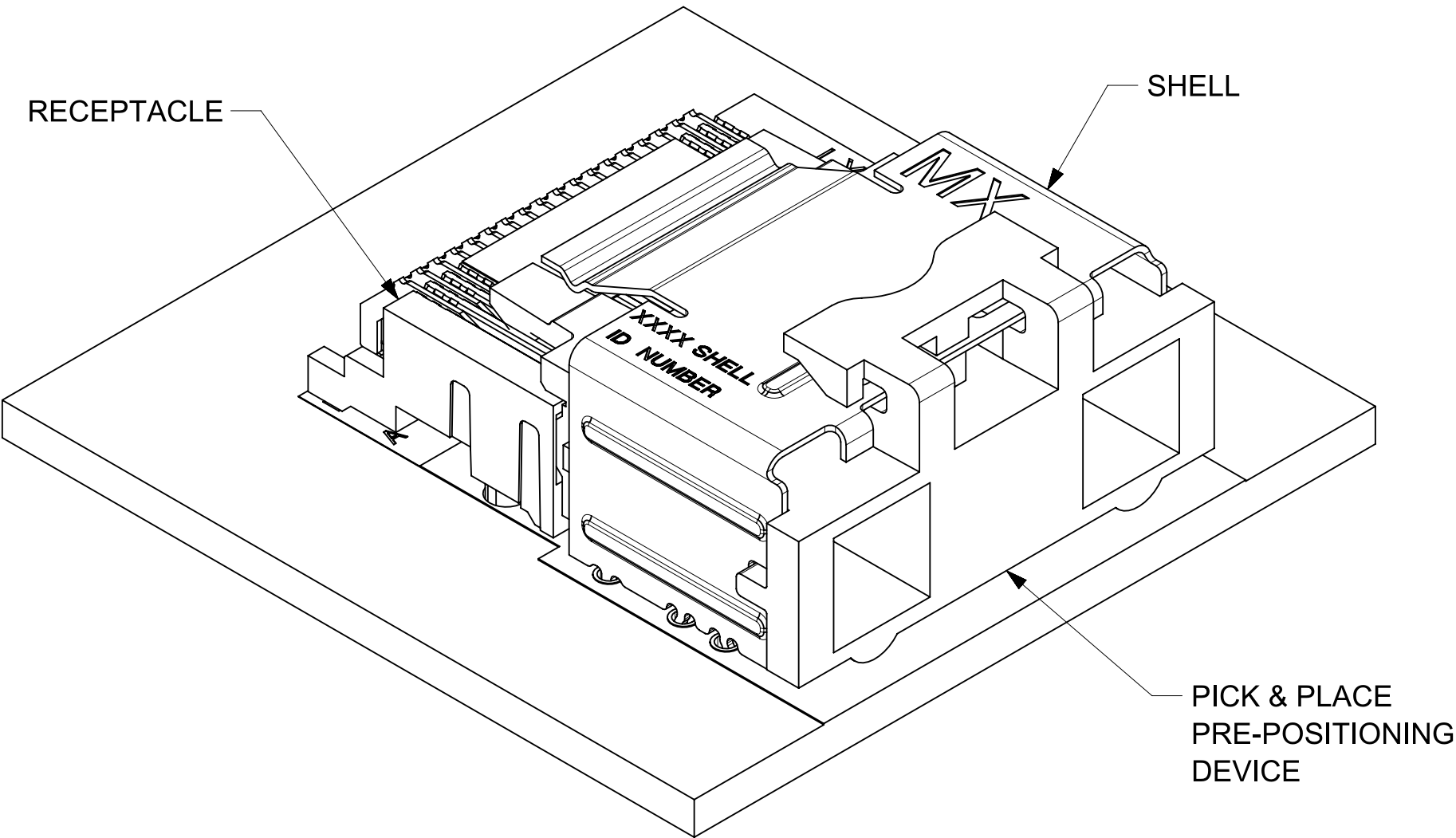
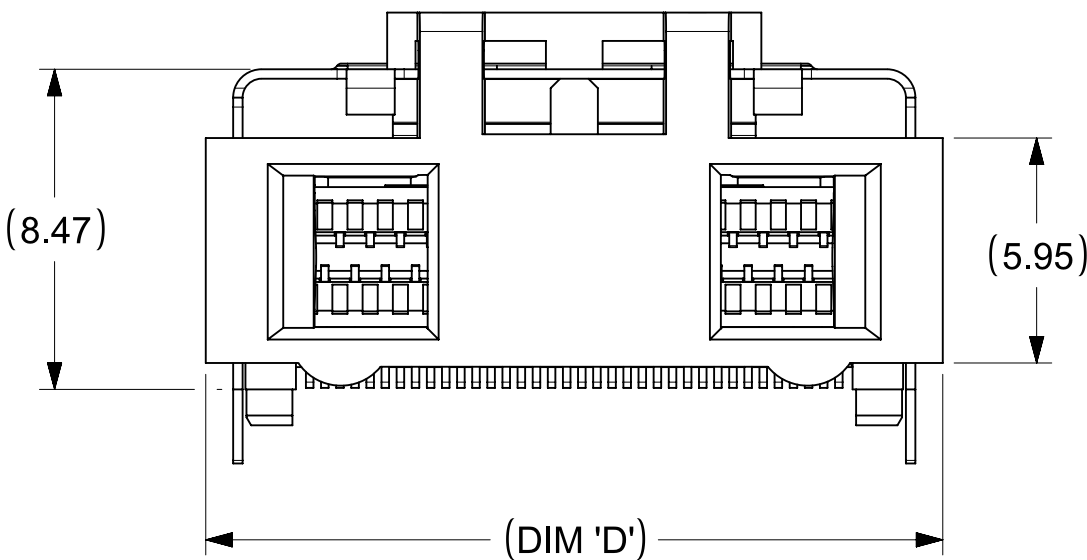
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-75783-001	PSD	001	F3

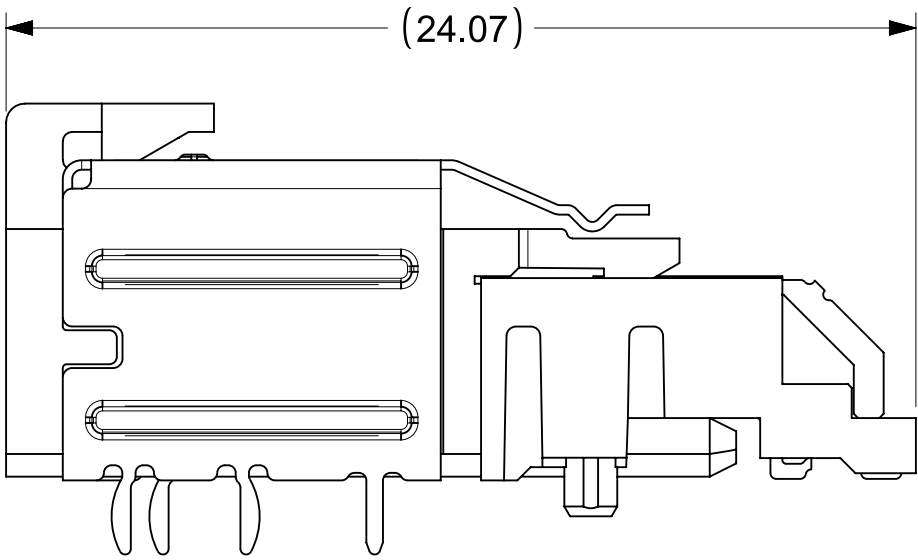
ASSEMBLY WITH PRE-POSITION DEVICE



PICK & PLACE
NOZZLE AREA



36 CIRCUIT RETENTION-FIT SHELL OPTION SHOWN



- NOTES:
- 1. PICK AND PLACE AREA DEFINED IN APPLICATION SPECIFICATION, AS-75783-001
 - 2. PACKAGING CONSISTS OF CONNECTOR AND SHELL WITH A PRE-POSITIONING PICK AND PLACE DEVICE THAT ARE PACKAGED IN "TAPE AND REEL" FOR ROBOTIC PICK AND PLACE.

CIRCUIT SIZE	DIM 'D'
36	19.50
50	25.10
68	32.30

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DIMENSION UNITS	SCALE	CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#516673							
MM	5:1								
GENERAL TOLERANCES (UNLESS SPECIFIED)		STATUS: Production DRWN: Sampreet S Mirajkar 2026-02-09 CHK'D: Ganesh Rao B 2026-03-18 APPR: Gurunandan GA 2026-03-20							
ANGULAR TOL	± 0.5°								
4 PLACES	±								
3 PLACES	±								
2 PLACES	± 0.130								
1 PLACE	± 0.25	THIRD ANGLE PROJECTION							
0 PLACES	±								
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER			
		C-SIZE	75783	SEE TABLE	GENERAL MARKET	5 OF 12			

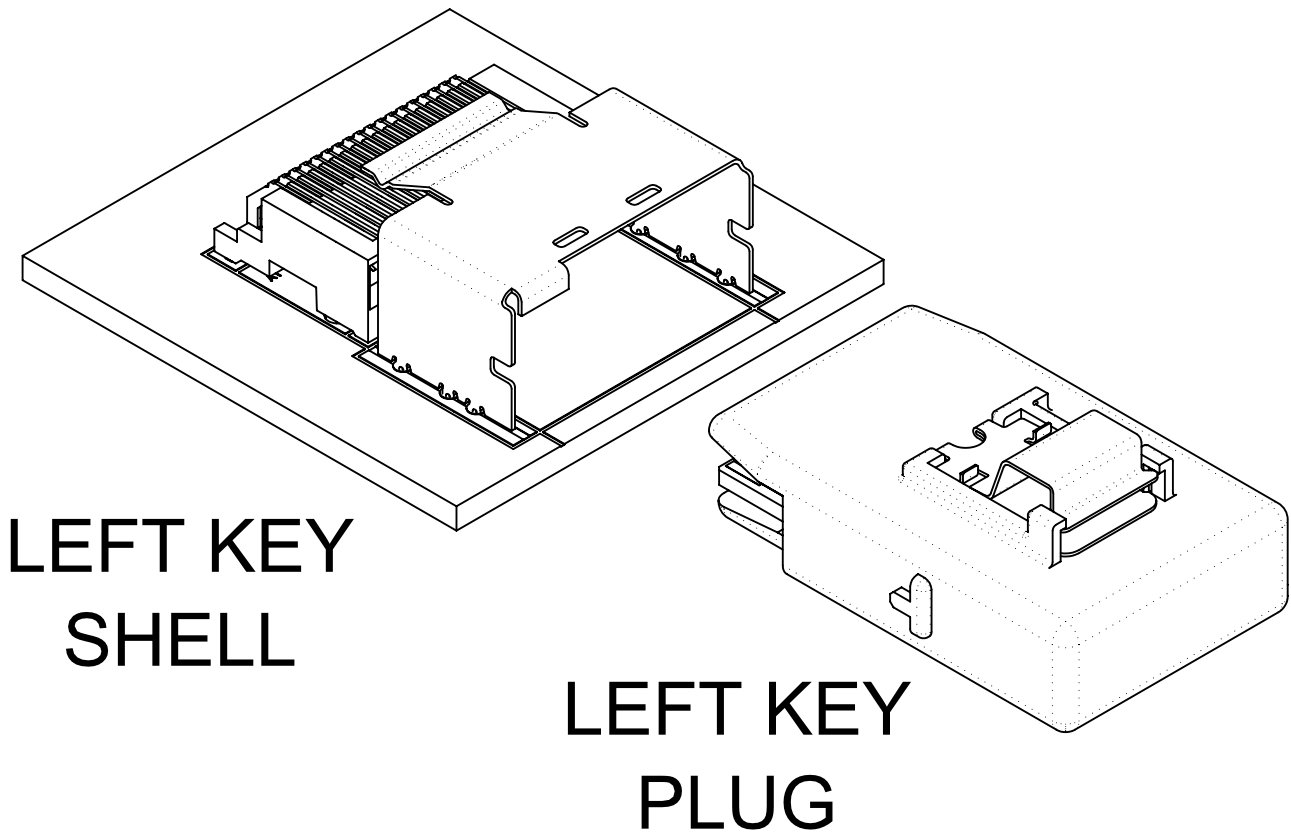
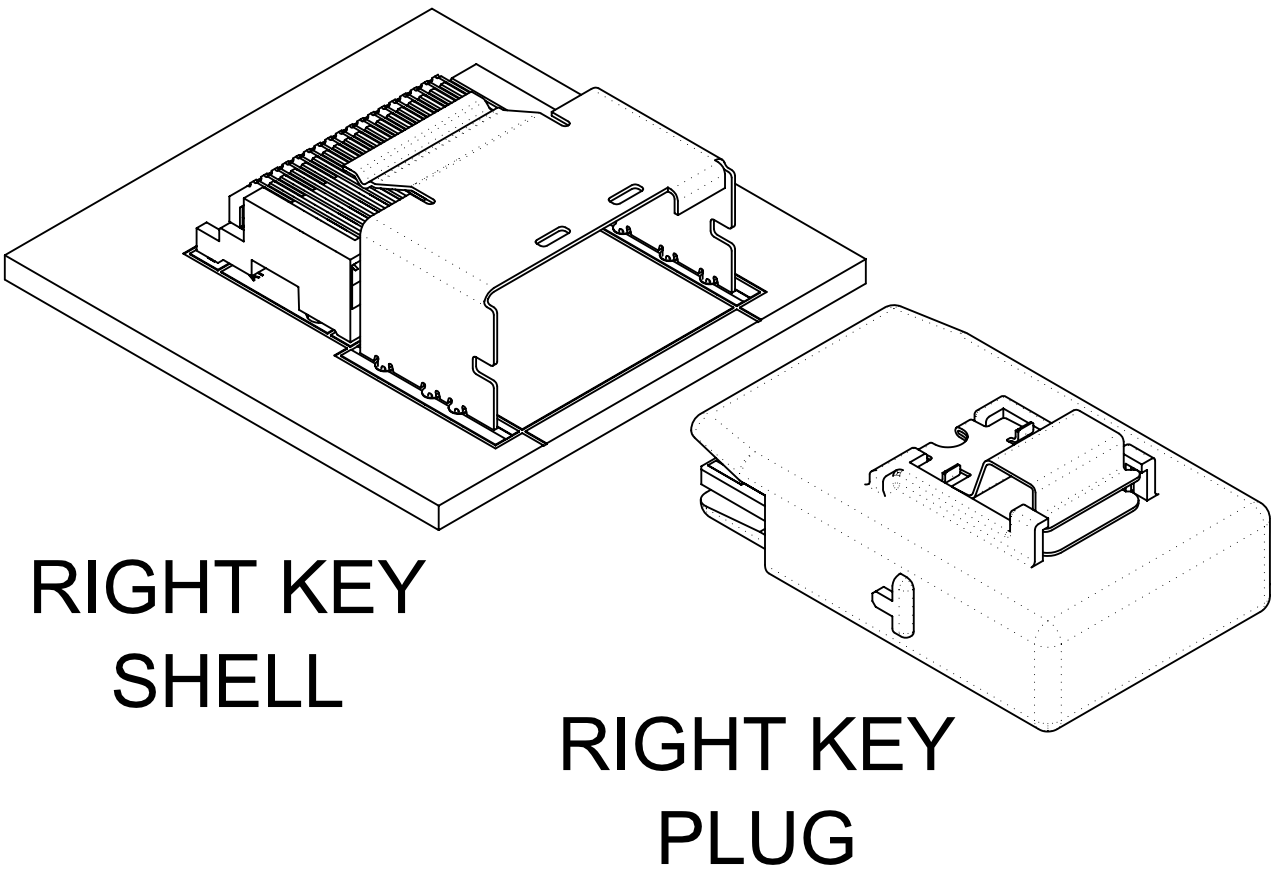
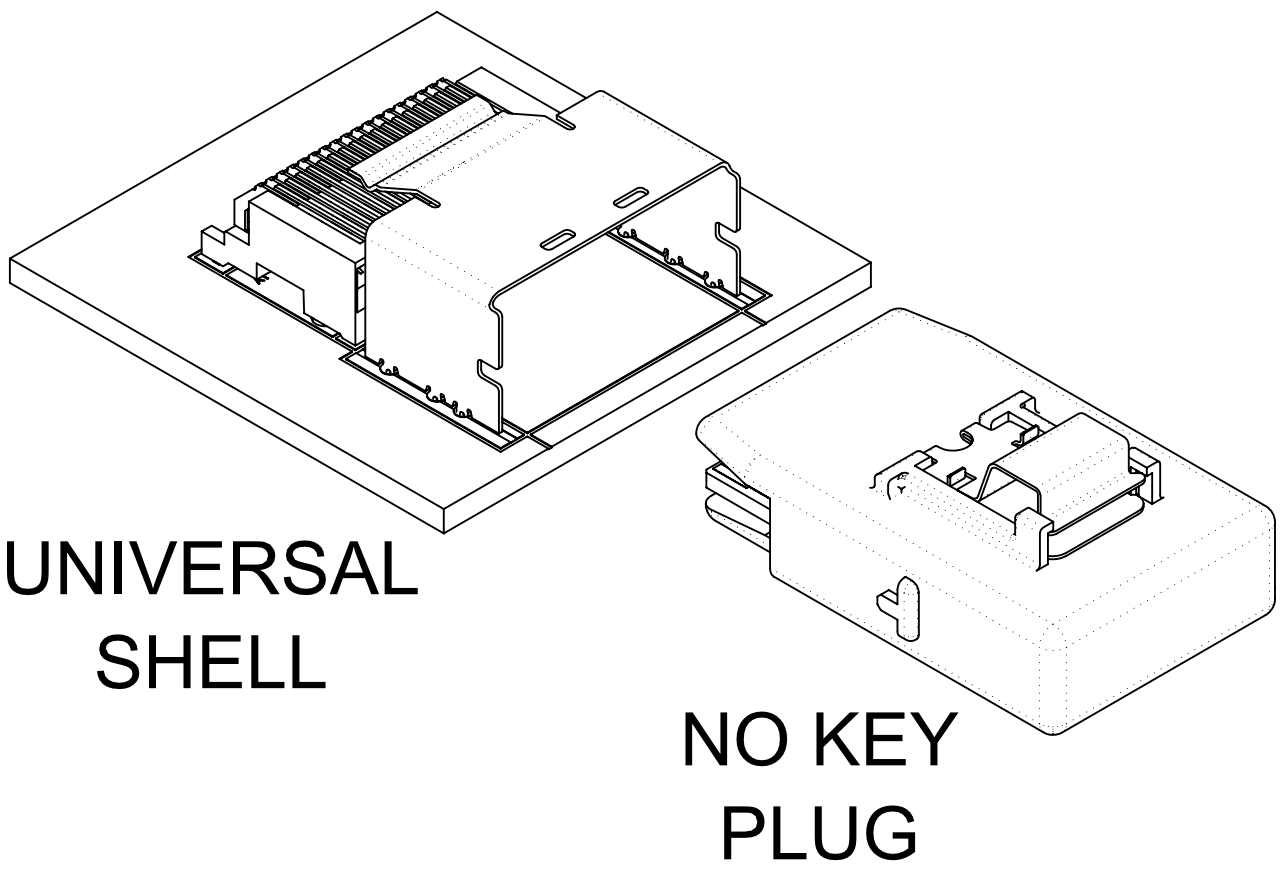
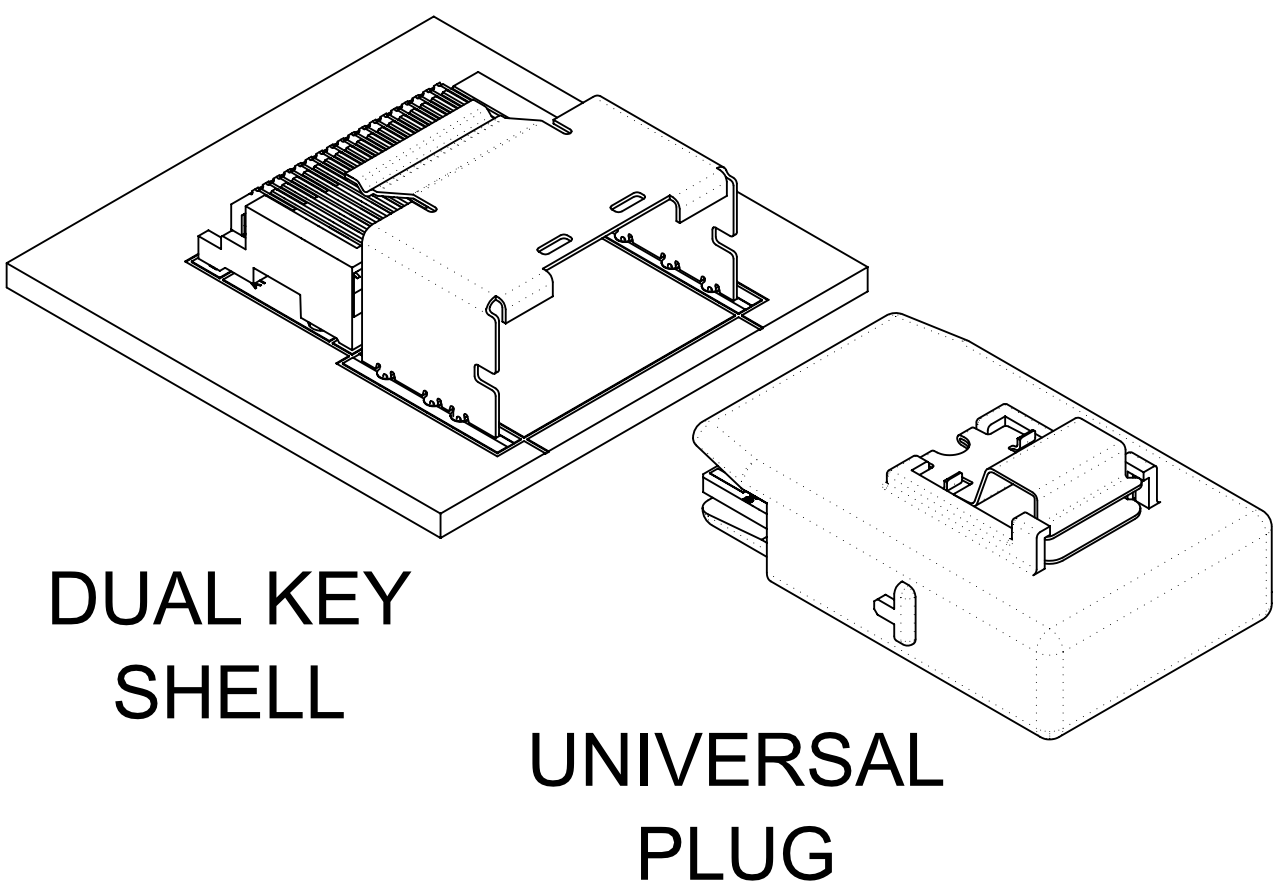
molex

I-PASS R/A CONNECTOR
INTERNAL ASSY W/SHELL 0.8MM PITCH I/O

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-75783-001	PSD	001	F3

KEYING OPTIONS



	UNIVERSAL SHELL	LEFT KEY SHELL	RIGHT KEY SHELL	DUAL KEY SHELL
NO KEY PLUG	YES	NO	NO	NO
LEFT KEY PLUG	YES	YES	NO	NO
RIGHT KEY PLUG	YES	NO	YES	NO
UNIVERSAL PLUG	YES	YES	YES	YES

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DIMENSION UNITS		SCALE		CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#516673			<div>molex</div>			
MM		1:1								
GENERAL TOLERANCES (UNLESS SPECIFIED)										
ANGULAR TOL		± 0.5°								
4 PLACES		±								
3 PLACES		±								
2 PLACES		± 0.130								
1 PLACE		± 0.25								
0 PLACES		±								
STATUS: Production DRWN: Sampreet S Mirajkar 2026-02-09 CHK'D: Ganesh Rao B 2026-03-18 APPR: Gurunandan GA 2026-03-20				PRODUCT CUSTOMER DRAWING						
				DOCUMENT NUMBER			DOC TYPE	DOC PART	REVISION	
				SD-75783-001			PSD	001	F3	
				MATERIAL NUMBER			CUSTOMER		SHEET NUMBER	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION	DRAWING	SERIES	SEE TABLE	GENERAL MARKET		7 OF 12
					C-SIZE	75783				

36 CIRCUIT ITEM NUMBERS

CIRCUIT SIZE	ITEM NUMBER	PLATING OPTION	SHELL PCB OPTION	SHELL KEY OPTION
36	75783-0132	OPTION 1	T/H 1.96	UNIVERSAL
36	75783-0170	OPTION 1	T/H 1.40	UNIVERSAL

CIRCUIT SIZE	ITEM NUMBER	PLATING OPTION	SHELL PCB OPTION	SHELL KEY OPTION
36	75783-0140	OPTION 1	T/H 2.79	UNIVERSAL
36	75783-0156	OPTION 1	T/H 3.56	UNIVERSAL

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DIMENSION UNITS		SCALE		CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#516673				<div>molex</div>				
MM		1:1										
GENERAL TOLERANCES (UNLESS SPECIFIED)												
ANGULAR TOL ± 0.5°												
4 PLACES		±										
3 PLACES		±		STATUS: Production DRWN: Sampreet S Mirajkar								

50 CIRCUIT ITEM NUMBERS

CIRCUIT SIZE	ITEM NUMBER	PLATING OPTION	SHELL PCB OPTION	SHELL KEY OPTION
50	75783-0236	OPTION 2	T/H 1.96	UNIVERSAL

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DIMENSION UNITS		SCALE		CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#516673					<div>molex</div>			
MM		1:1										
GENERAL TOLERANCES (UNLESS SPECIFIED)												
ANGULAR TOL ± 0.5°												
4 PLACES		±										
3 PLACES		±		STATUS: Production DRWN: Sampreet S Mirajkar								

68 CIRCUIT ITEM NUMBERS

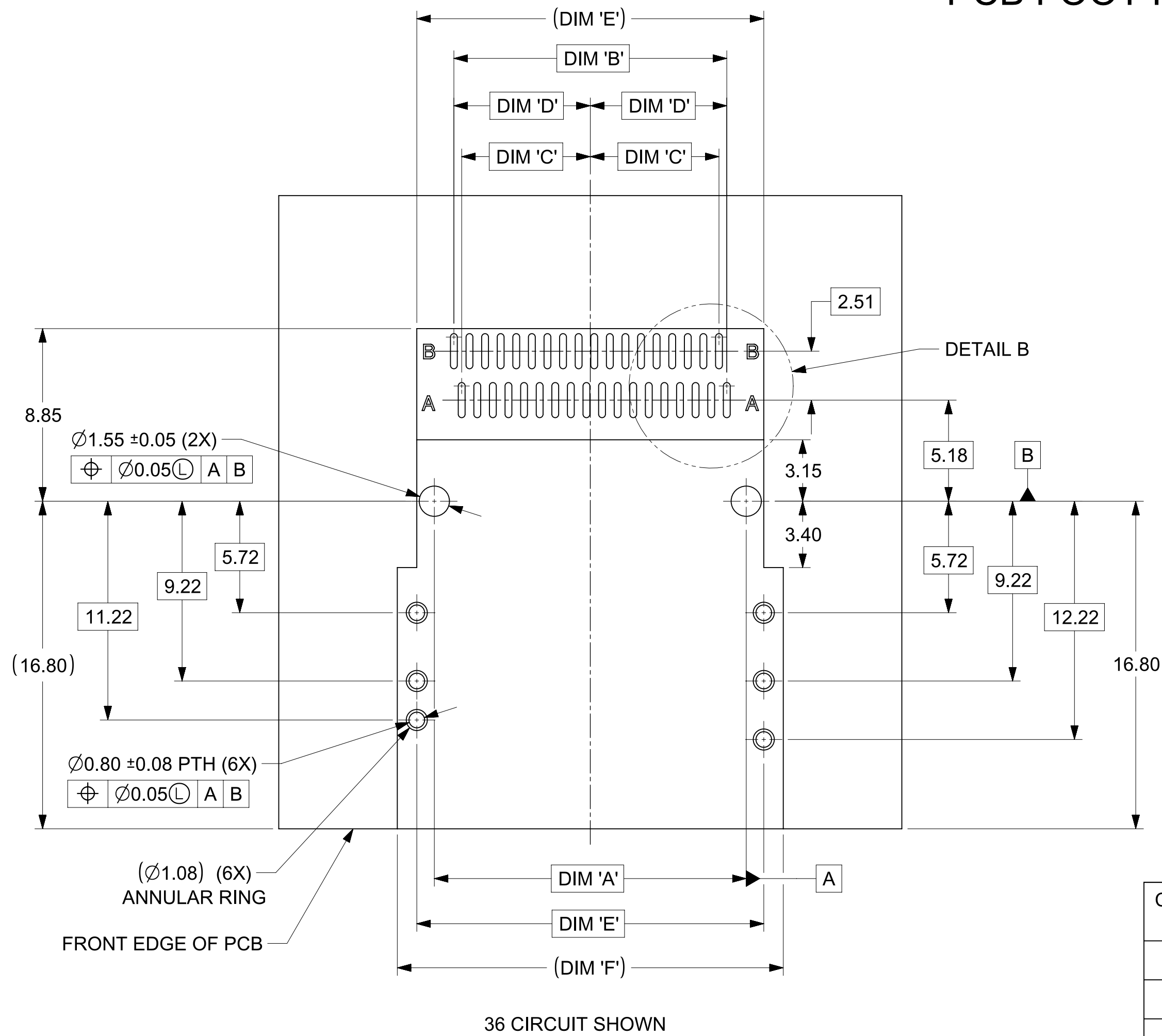
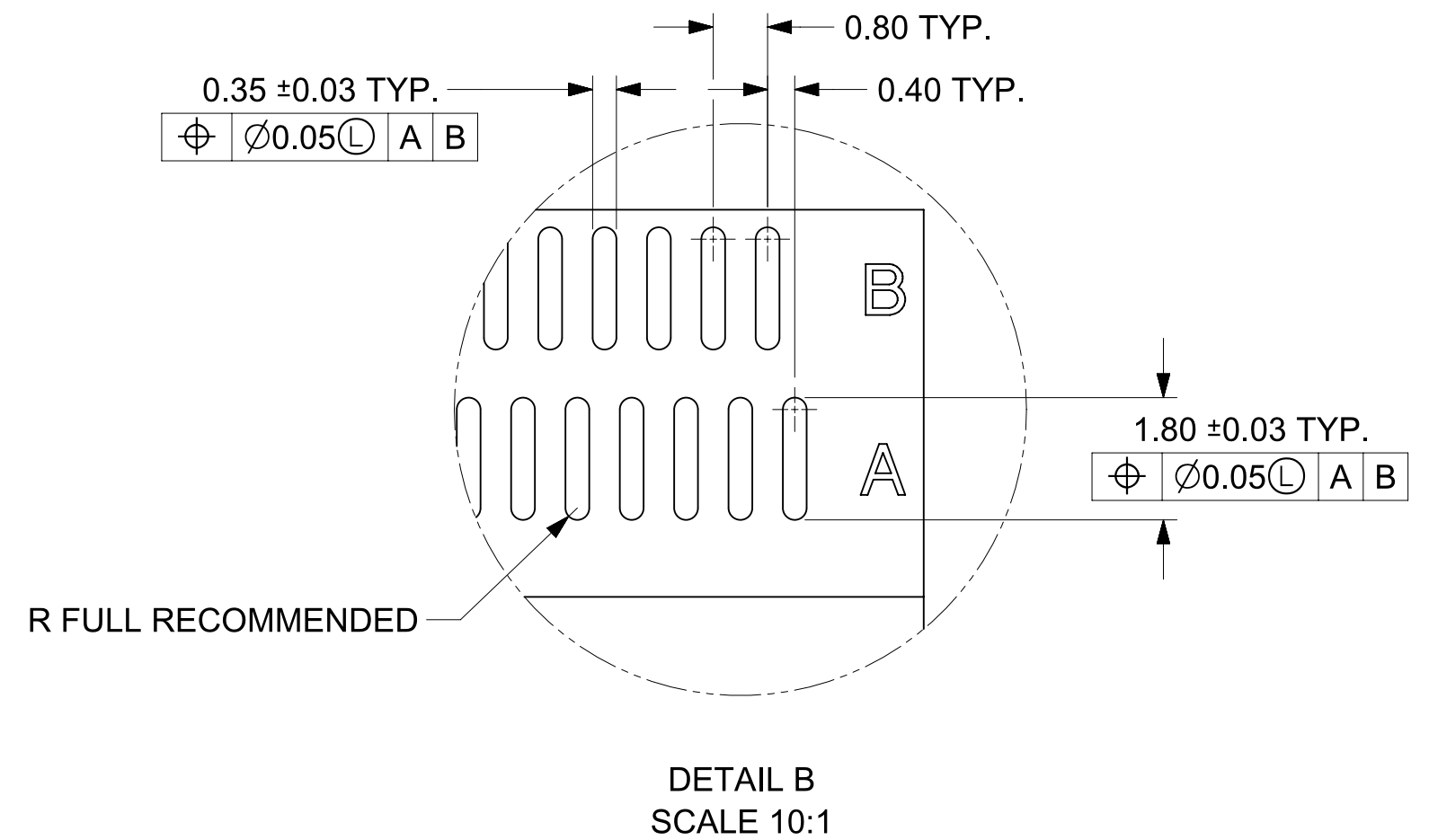
CIRCUIT SIZE	ITEM NUMBER	PLATING OPTION	SHELL PCB OPTION	SHELL KEY OPTION
68	75783-0332	OPTION 1	T/H 1.96	UNIVERSAL

CIRCUIT SIZE	ITEM NUMBER	PLATING OPTION	SHELL PCB OPTION	SHELL KEY OPTION
68	75783-0338	OPTION 1	T/H 2.79	RIGHT

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DIMENSION UNITS	SCALE	CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#516673			<div><div>molex</div><div>I-PASS R/A CONNECTOR INTERNAL ASSY W/SHELL 0.8MM PITCH I/O</div></div>				
MM	1:1								
GENERAL TOLERANCES (UNLESS SPECIFIED)									
ANGULAR TOL	± 0.5°								
4 PLACES	±								
3 PLACES	±	STATUS: Production DRWN: Sampreet S Mirajkar CHK'D: Ganesh Rao B APPR: Gurunandan GA	2026-02-09 2026-03-18 2026-03-20	PRODUCT CUSTOMER DRAWING					
2 PLACES	± 0.130			DOCUMENT NUMBER			DOC TYPE	DOC PART	REVISION
1 PLACE	± 0.25			SD-75783-001			PSD	001	F3
0 PLACES	±			MATERIAL NUMBER			CUSTOMER		SHEET NUMBER
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	GENERAL MARKET		10 OF 12		

RIGHT ANGLE CONNECTOR
WITH RETENTION FIT & THRU-HOLE SHELL
PCB FOOT PRINT



	PEG TO PEG	FIRST PAD TO LAST PAD	CENTERLINE TO PAD	CENTERLINE TO PAD	CONNECTOR WIDTH SHELL PEG TO PEG	SHELL FOOTPRINT WIDTH
CIRCUIT SIZE	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	DIM 'E'	DIM 'F'
36	16.00	14.00	6.60	7.00	17.80	19.80
50	21.60	19.60	9.40	9.80	23.40	25.40
68	28.80	26.80	13.00	13.40	30.60	32.60

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DIMENSION UNITS		SCALE		CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#516673				<div>molex</div>							
MM		5:1													
GENERAL TOLERANCES (UNLESS SPECIFIED)															
ANGULAR TOL ± 0.5°															
4 PLACES ±								I-PASS R/A CONNECTOR INTERNAL ASSY W/SHELL 0.8MM PITCH I/O							
3 PLACES ±															
2 PLACES ± 0.130															
1 PLACE ± 0.25								PRODUCT CUSTOMER DRAWING				DOCUMENT NUMBER		DOC TYPE	DOC PART
0 PLACES ±															
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
				 		C-SIZE		75783		SEE TABLE		GENERAL MARKET		11 OF 12	

12	11	10	9	8	7	6	5	4	3	2	1
H											H
G											G
F											F
E											E
D											D
C											C
B											B
A											A

DATE	REV	DESCRIPTION
2018/03/20	F	1. REMASTERED FROM MODEL MANAGER
		2. SHEET 1, NOTE 3, COPLANAR DISTANCE CHANGED FROM 0.15 TO 0.10
2019/03/28	F1	1. RECREATED IN NX
		2. OBSOLETED PART NO 757830052,757830145,757830146,757830326
2023/03/30	F2	1)OBSOLETED PART NUMBERS AS PER PCN#511683(ECN-743800). 2)REMOVED SHEET 8 AND 26 CIRCUIT ITEM NUMBERS.
2026/02/09	F3	REMOVED OBSOLETED PART NUMBERS: 75783-0107, 75783-0112, 75783-0121, 75783-0122, 75783-0125, 75783-0126, 75783-0127, 75783-0128, 75783-0133, 75783-0137, 75783-0144, 75783-0150, 75783-0155, 75783-0252, 75783-0328, 75783-0334, 75783-0337, 75783-0348, & 75783-0352

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DIMENSION UNITS		SCALE		CURRENT REV DESC: REMOVED OBSOLETED PART NUMBERS AS PER PCN#516673				<div>molex</div>						
MM		1:1												
GENERAL TOLERANCES (UNLESS SPECIFIED)														
ANGULAR TOL		± 0.5°												
4 PLACES		±												
3 PLACES		±		STATUS: Production DRWN: Sampreet S Mirajkar CHK'D: Ganesh Rao B APPR: Gurunandan GA				PRODUCT CUSTOMER DRAWING						
2 PLACES		± 0.130						DOCUMENT NUMBER				DOC TYPE	DOC PART	REVISION
1 PLACE		± 0.25						SD-75783-001				PSD	001	F3
0 PLACES		±						MATERIAL NUMBER				CUSTOMER		SHEET NUMBER
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		SEE TABLE		GENERAL MARKET		12 OF 12

C-SIZE

75783

12	11	10	9	8	7	6	5	4	3	2	1
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