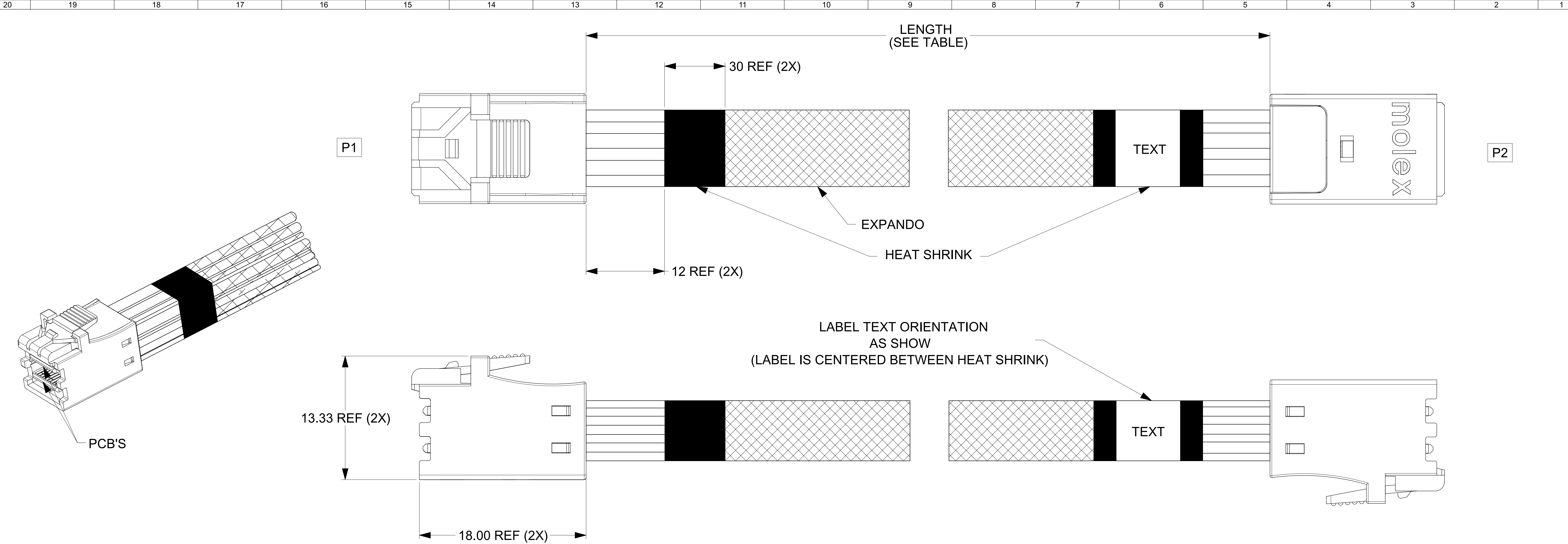




- NOTES:
- MATERIAL:
 - HOUSING - 30% GLASS FILLED NYLON, UL94-V0
 - LATCH - MOLDED INTO HOUSING
 - EXPANDO - PET
 - CABLE - TWIN-AX SHIELD: ALUMNINIZED POLYESTER FOIL
 - SIGNAL AND DRAIN: SOLID COPPER
 - PCB - FR4 (HALOGEN FREE)
 - THIS PRODUCT CONFORMS TO THE MECHANICAL DIMENSIONING OF SFF-8643 AND ELECTRICAL PERFORMANCE REQUIREMENTS OF SAS 3.0
 - RoHS COMPLIANT. NO EXEMPTIONS

MOLEX P/N	AWG	LENGTH (mm)	TOLERANCE (+-mm)	DESCRIPTION	PINOUT
1001890202	30	500	10	CTRL TO CTRL	2
1001890151	30	500	10	PCIE	3

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#517487							
MM	5:1								
GENERAL TOLERANCES (UNLESS SPECIFIED)		STATUS: Production DRWN: J Sanat Kumar CHK'D: Ganesh Rao B APPR: Gurunandan GA 2025-12-24 2026-01-23 2026-01-23							
ANGULAR TOL	± 1°								
4 PLACES	±								
3 PLACES	±								
2 PLACES	± 0.130								
1 PLACE	± 0.25	THIRD ANGLE PROJECTION DRAWING SERIES D-SIZE 100189							
0 PLACES	±								
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER			
		SEE P/N TABLE		GENERAL MARKET		1 OF 3			

PINOUT 1

C O N T R O L L E R	P1			P2		B A C K P L A N E
	GND	D9		B9	GND	
	TX2-	D8	————>	B8	RX2-	
	TX2+	D7	————>	B7	RX2+	
	GND	D6	————	B6	GND	
	TX0-	D5	————>	B5	RX0-	
	TX0+	D4	————>	B4	RX0+	
	GND	D3	————	B3	GND	
	SB6	D2	-----	D1	SB6	
	SB5	D1	-----	D2	SB5	
	SB4	C1	-----	C2	SB4	
	SB2	C2	-----	C1	SB2	
	GND	C3	————	A3	GND	
	TX1+	C4	————>	A4	RX1+	
	TX1-	C5	————>	A5	RX1-	
	GND	C6	————	A6	GND	
	TX3+	C7	————>	A7	RX3+	
	TX3-	C8	————>	A8	RX3-	
	GND	C9	N/C	A9	GND	
	GND	B9	N/C	D9	GND	
	RX2-	B8	<————	D8	TX2-	
	RX2+	B7	<————	D7	TX2+	
	GND	B6	————	D6	GND	
	RX0-	B5	<————	D5	TX0-	
	RX0+	B4	<————	D4	TX0+	
	GND	B3	————	D3	GND	
	SB1	B2	-----	B1	SB1	
	SB3	B1	-----	B2	SB3	
	SB7	A1	-----	A2	SB7	
	SB0	A2	-----	A1	SB0	
	GND	A3	————	C3	GND	
	RX1+	A4	<————	C4	TX1+	
	RX1-	A5	<————	C5	TX1-	
	GND	A6	————	C6	GND	
	RX3+	A7	<————	C7	TX3+	
	RX3-	A8	<————	C8	TX3-	
	GND	A9	N/C	C9	GND	

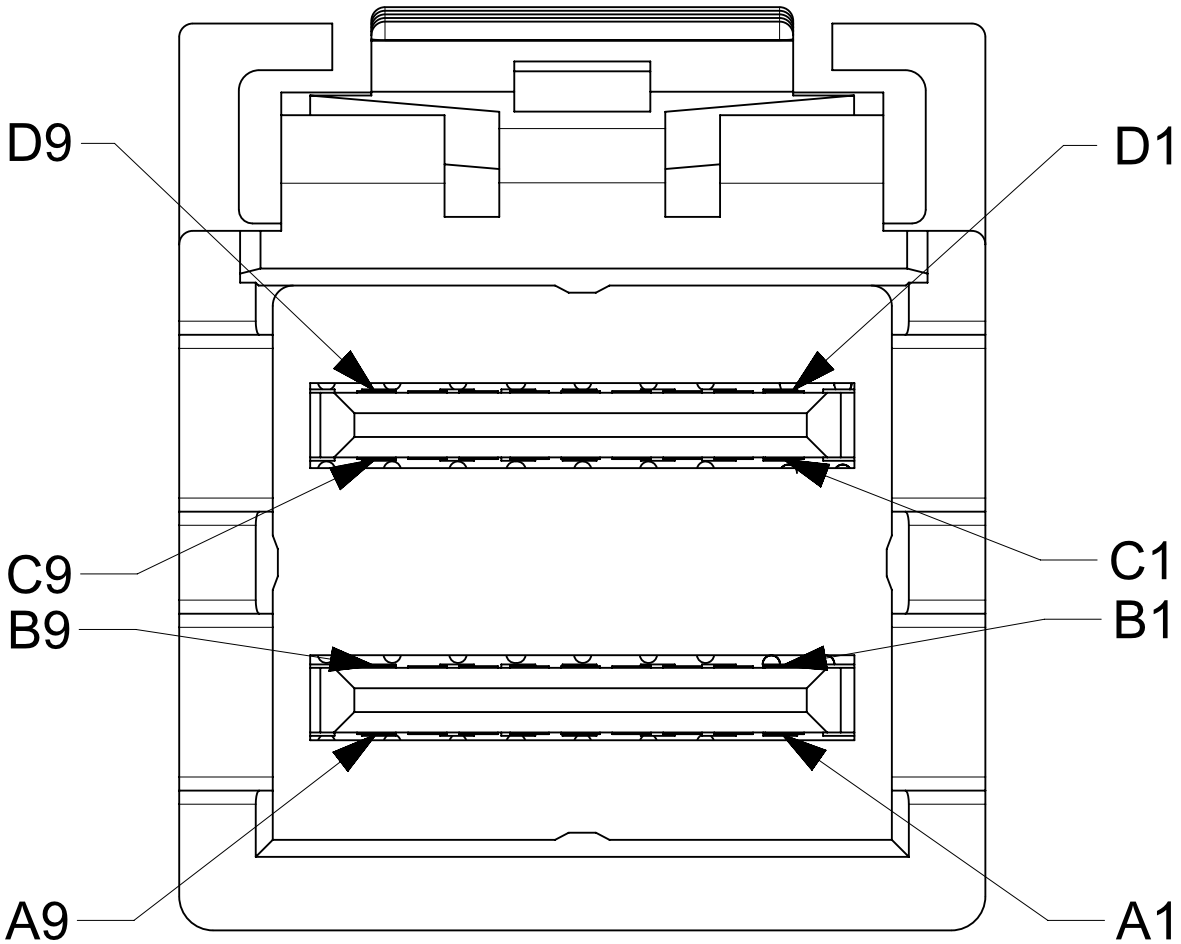
PINOUT 2

C O N T R O L L E R	P1			P2		C O N T R O L L E R
	GND	D9		B9	GND	
	TX2-	D8	————>	B8	RX2-	
	TX2+	D7	————>	B7	RX2+	
	GND	D6	————	B6	GND	
	TX0-	D5	————>	B5	RX0-	
	TX0+	D4	————>	B4	RX0+	
	GND	D3	————	B3	GND	
	SB6	D2	-----	B2	SB1	
	SB5	D1	-----	C2	SB2	
	SB4	C1	-----	B1	SB3	
	SB2	C2	-----	D1	SB5	
	GND	C3	————	A3	GND	
	TX1+	C4	————>	A4	RX1+	
	TX1-	C5	————>	A5	RX1-	
	GND	C6	————	A6	GND	
	TX3+	C7	————>	A7	RX3+	
	TX3-	C8	————>	A8	RX3-	
	GND	C9	N/C	A9	GND	
	GND	B9	N/C	D9	GND	
	RX2-	B8	<————	D8	TX2-	
	RX2+	B7	<————	D7	TX2+	
	GND	B6	————	D6	GND	
	RX0-	B5	<————	D5	TX0-	
	RX0+	B4	<————	D4	TX0+	
	GND	B3	————	D3	GND	
	SB1	B2	-----	D2	SB6	
	SB3	B1	-----	C1	SB4	
	SB0	A2	-----	A1	SB7	
	GND	A3	————	C3	GND	
	RX1+	A4	<————	C4	TX1+	
	RX1-	A5	<————	C5	TX1-	
	GND	A6	————	C6	GND	
	RX3+	A7	<————	C7	TX3+	
	RX3-	A8	<————	C8	TX3-	
	GND	A9	N/C	C9	GND	

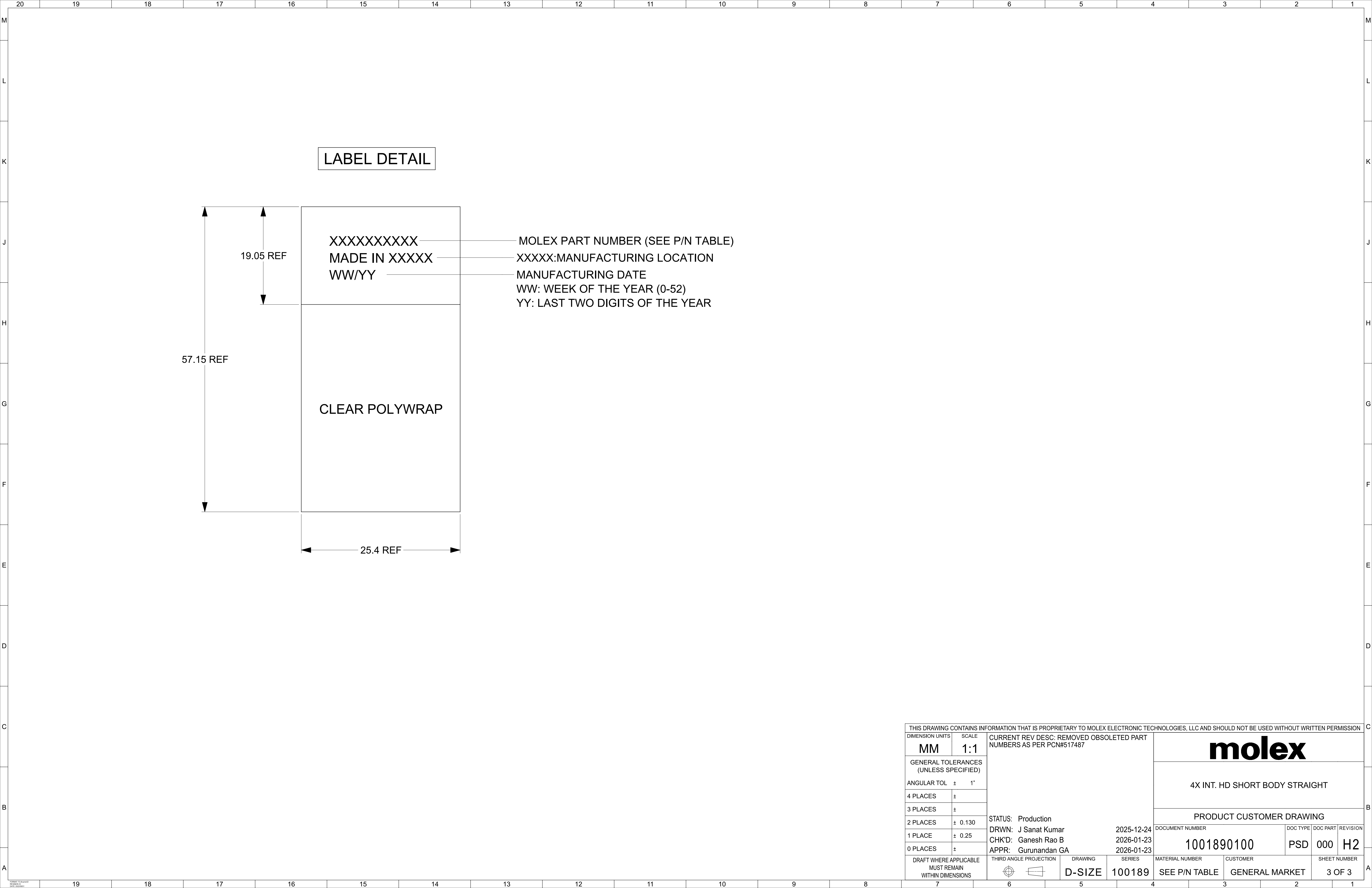
PINOUT 3

P C I E	P1			P2		
	GND	D9		B9	GND	
	TX2-	D8	————>	B8	RX2-	
	TX2+	D7	————>	B7	RX2+	
	GND	D6	————	B6	GND	
	TX0-	D5	————>	B5	RX0-	
	TX0+	D4	————>	B4	RX0+	
	GND	D3	————	B3	GND	
	SB6	D2	-----	D1	SB6	
	SB5	D1	-----	D2	SB5	
	WAKE _n	C1	-----	C2	CWAKE _n	
	RST _n	C2	-----	C1	CPERST _n	
	GND	C3	————	A6	GND	
	TX1+	C4	————>	A4	RX1+	
	TX1-	C5	————>	A5	RX1-	
	GND	C6	————	A9	GND	
	TX3+	C7	————>	A7	RX3+	
	TX3-	C8	————>	A8	RX3-	
	GND	C9	N/C	C9	GND	
	GND	B9	N/C	D9	GND	
	RX2-	B8	<————	D8	TX2-	
	RX2+	B7	<————	D7	TX2+	
	GND	B6	————	D6	GND	
	RX0-	B5	<————	D5	TX0-	
	RX0+	B4	<————	D4	TX0+	
	GND	B3	————	D3	GND	
	SB1	B2	-----	B1	SB1	
	SB3	B1	-----	B2	SB3	
	CLK+	A1	<————	A2	CLK+	
	CLK-	A2	<————	A1	CLK-	
	GND	A3	————	A3	GND	
	RX1+	A4	<————	C4	TX1+	
	RX1-	A5	<————	C5	TX1-	
	GND	A6	————	C3	GND	
	RX3+	A7	<————	C7	TX3+	
	RX3-	A8	<————	C8	TX3-	
	GND	A9	————	C6	GND	

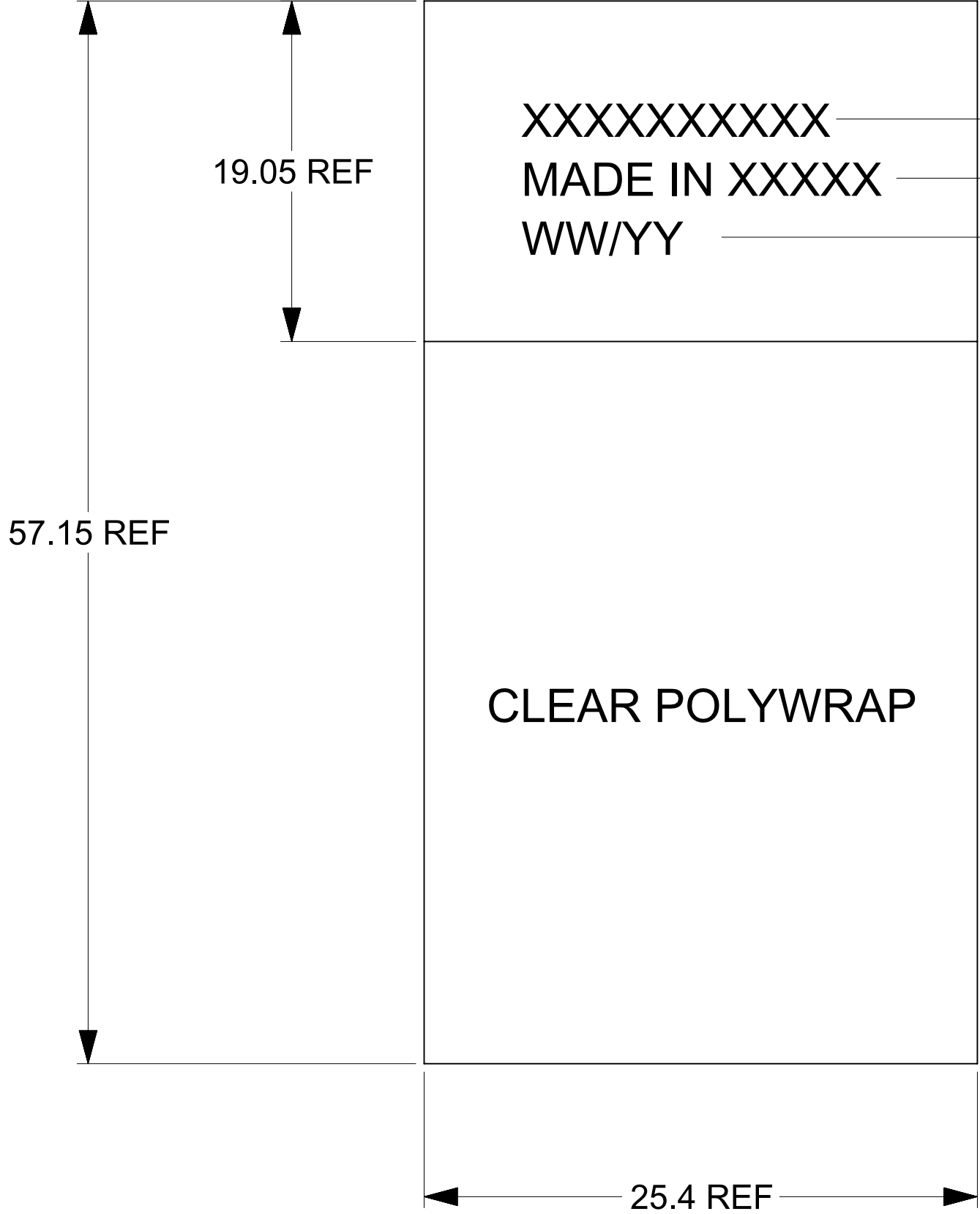
LEGEND:
———— = GROUND LINES
----- = THRU LINES
————> = TRANSMIT TO RECEIVE ON HIGH SPEED CIRCUITS



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DIMENSION UNITS MM		SCALE 20:1		CURRENT REV DESC: REMOVED OBSOLETED PART NUMBERS AS PER PCN#517487				molex 4X INT. HD SHORT BODY STRAIGHT PRODUCT CUSTOMER DRAWING					
GENERAL TOLERANCES (UNLESS SPECIFIED)				STATUS: Production DRWN: J Sanat Kumar CHK'D: Ganesh Rao B APPR: Gurunandan GA									
ANGULAR TOL ± 1°													
4 PLACES ±		±		2025-12-24 2026-01-23 2026-01-23				DOCUMENT NUMBER 1001890100		DOC TYPE PSD	DOC PART 000	REVISION H2	
3 PLACES ±		±						MATERIAL NUMBER SEE P/N TABLE		CUSTOMER GENERAL MARKET		SHEET NUMBER 2 OF 3	
2 PLACES ± 0.130		±						THIRD ANGLE PROJECTION		DRAWING D-SIZE		SERIES 100189	
1 PLACE ± 0.25		±						DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					
0 PLACES ±		±											



LABEL DETAIL



MOLEX PART NUMBER (SEE P/N TABLE)
XXXXXX:MANUFACTURING LOCATION
MANUFACTURING DATE
WW: WEEK OF THE YEAR (0-52)
YY: LAST TWO DIGITS OF THE YEAR

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#517487				molex 4X INT. HD SHORT BODY STRAIGHT PRODUCT CUSTOMER DRAWING <table><tr><td colspan="2">DOCUMENT NUMBER</td><td>DOC TYPE</td><td>DOC PART</td><td>REVISION</td></tr><tr><td colspan="2">1001890100</td><td>PSD</td><td>000</td><td>H2</td></tr></table>		DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION	1001890100		PSD	000	H2
DOCUMENT NUMBER		DOC TYPE	DOC PART							REVISION									
1001890100		PSD	000							H2									
MM		1:1																	
GENERAL TOLERANCES (UNLESS SPECIFIED)																			
ANGULAR TOL		±	1°																
4 PLACES		±																	
3 PLACES		±																	
2 PLACES		± 0.130																	
1 PLACE		± 0.25																	
0 PLACES		±																	
STATUS: Production DRWN: J Sanat Kumar CHK'D: Ganesh Rao B APPR: Gurunandan GA				2025-12-24															
				2026-01-23															
				2026-01-23															
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER					
						D-SIZE		100189		SEE P/N TABLE		GENERAL MARKET		3 OF 3					