

MOLEX P/N	AWG	IMPEDANCE	LENGTH (mm)	TOLERANCE (+-mm)	DESCRIPTION	PINOUT
1002210100	30	85 OHM	152	10	CTRL TO BP	1
1002210101	30	85 OHM	300	10	CTRL TO BP	1
1002210102	30	85 OHM	500	10	CTRL TO BP	1
1002210103	30	85 OHM	600	10	CTRL TO BP	1
1002210104	30	85 OHM	1000	15	CTRL TO BP	1
1002210200	30	85 OHM	152	10	CTRL TO CTRL	2
1002210201	30	85 OHM	300	10	CTRL TO CTRL	2
1002210202	30	85 OHM	500	10	CTRL TO CTRL	2
1002210203	30	85 OHM	600	10	CTRL TO CTRL	2
1002210204	30	85 OHM	1000	15	CTRL TO CTRL	2
1002210300	30	85 OHM	152	10	PCIE	3
1002210301	30	85 OHM	300	10	PCIE	3
1002210302	30	85 OHM	500	10	PCIE	3
1002210303	30	85 OHM	600	10	PCIE	3
1002210304	30	85 OHM	1000	15	PCIE	3

NOTES:

- MATERIAL:
 HOUSING - NYLON, UL94-V0
 LATCH - MOLDED INTO HOUSING
 EXPANDO - PET
 CABLE - TWIN-AX SHIELD: ALUMINIZED 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

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC:		
	DIMENSION UNITS	SCALE			
▽ = 0	mm	1:1			4X INT. HD SHORT STR TO STR CBL ASSY 85 OHM
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)				
▽ = 0	ANGULAR TOL ± 1.0°		EC NO: 631623		PRODUCT CUSTOMER DRAWING
▽ = 0	4 PLACES ±		DRWN: RCHEN34 2020/02/04		
▽ = 0	3 PLACES ±		CHK'D: VPENG01 2020/02/05		DOCUMENT NUMBER SD-100221-0100
▽ = 0	2 PLACES ± 0.13		APPR: VPENG01 2020/02/05		
▽ = 0	1 PLACE ± 0.25		INITIAL REVISION:		DOC TYPE PSD
▽ = 0	0 PLACES ±		DRWN: TPRATT 2014/02/26		
☒ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPR: CHIRSCHY 2014/03/21		DOC PART 001
■ = 0	THIRD ANGLE PROJECTION		DRAWING		
▽ = 0	D-DRAWING		SERIES		REVISION E
▽ = 0	D-SIZE		100221		
			MATERIAL NUMBER		SHEET NUMBER 1 OF 3
			SEE P/N TABLE		
			CUSTOMER		GENERAL MARKET

PINOUT 1

	P1		N/C	P2	
		GND		D9	B9
C O N T R O L L E R	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

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PINOUT 2

	P1		N/C	P2	
		GND		D9	B9
C O N T R O L L E R	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
	SB7	A1	-----	A2	SB0
	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

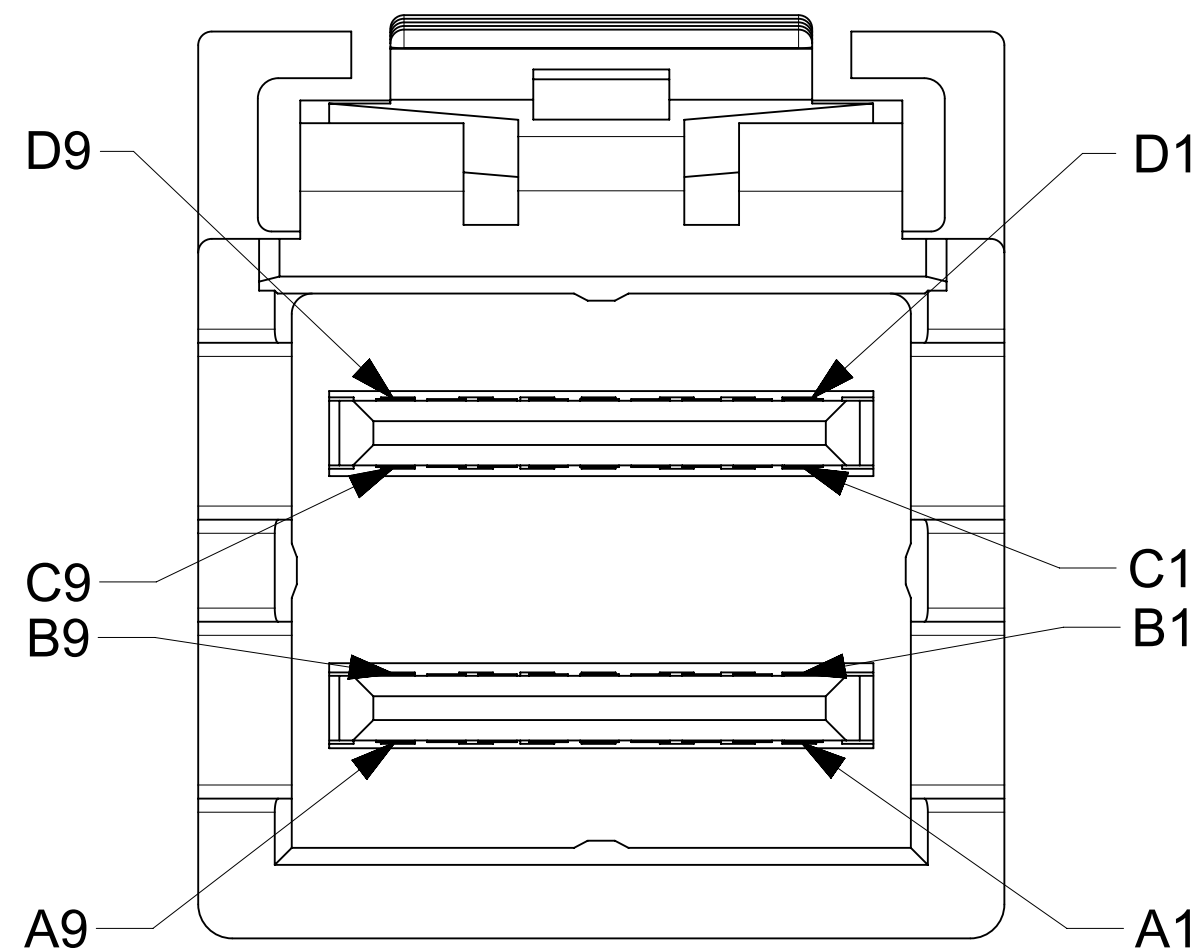
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PINOUT 3

	P1		N/C	P2	
		GND		D9	B9
P C I E	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

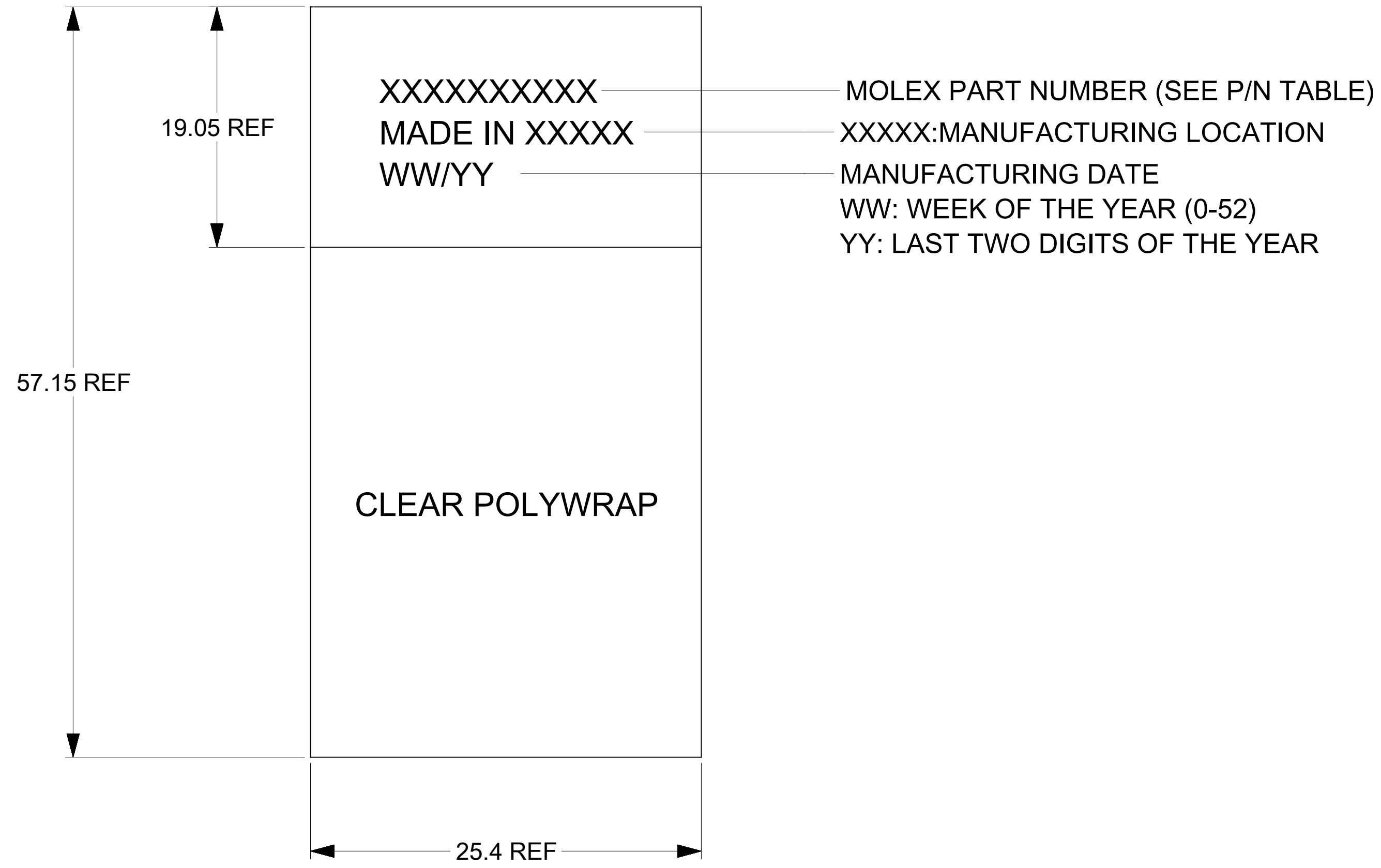
LEGEND:

- = GROUND LINES
- = THRU LINES
- = TRANSMIT TO RECEIVE ON HIGH SPEED CIRCUITS



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	▽ = 0	DIMENSION UNITS: mm	SCALE: 20:1		
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 631623		4X INT. HD SHORT STR TO STR CBL ASSY 85 OHM
▽ = 0	ANGULAR TOL ± 1.0°		DRWN: RCHEN34 2020/02/04		
▽ = 0	4 PLACES ±		CHK'D: VPENG01 2020/02/05		PRODUCT CUSTOMER DRAWING
▽ = 0	3 PLACES ±		APPR: VPENG01 2020/02/05		
▽ = 0	2 PLACES ± 0.13		INITIAL REVISION:		DOCUMENT NUMBER: SD-100221-0100 DOC TYPE: PSD DOC PART: 001 REVISION: E
▽ = 0	1 PLACE ± 0.25		DRWN: TPRATT 2014/02/26		
▽ = 0	0 PLACES ±		APPR: CHIRSCHY 2014/03/21		MATERIAL NUMBER: 100221 CUSTOMER: GENERAL MARKET SHEET NUMBER: 2 OF 3
■ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		
▽ = 0			DRAWING: D-SIZE		

LABEL DETAIL



SYMBOLS	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:				molex	
	mm		1:1							
	= 0		GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 631623 DRWN: RCHEN34 2020/02/04 CHK'D: VPENG01 2020/02/05 APPR: VPENG01 2020/02/05			
	= 0		ANGULAR TOL ± 1.0°							
	= 0		4 PLACES ±				INITIAL REVISION: DRWN: TPRATT 2014/02/26 APPR: CHIRSCHY 2014/03/21			
	= 0		3 PLACES ±							
	= 0		2 PLACES ± 0.13				DOCUMENT NUMBER SD-100221-0100 DOC TYPE PSD DOC PART 001 REVISION E			
	= 0		1 PLACE ± 0.25							
	= 0		0 PLACES ±				MATERIAL NUMBER SEE P/N TABLE CUSTOMER GENERAL MARKET SHEET NUMBER 3 OF 3			
= 0		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS								
= 0		THIRD ANGLE PROJECTION		DRAWING		SERIES				
		D-SIZE		100221						