

MOLEX P/N	AWG	IMPEANCE (OHM)	LENGTH (mm)	TOLERANCE (+-mm)	DESCRIPTION	PINOUT
1002250100	30	85	152	10	CTRL TO BP	1
1002250101	30	85	300	10	CTRL TO BP	1
1002250102	30	85	500	10	CTRL TO BP	1
1002250103	30	85	600	10	CTRL TO BP	1
1002250104	30	85	1000	15	CTRL TO BP	1
1002250200	30	85	152	10	CTRL TO CTRL	2
1002250201	30	85	300	10	CTRL TO CTRL	2
1002250202	30	85	500	10	CTRL TO CTRL	2
1002250203	30	85	600	10	CTRL TO CTRL	2
1002250204	30	85	1000	15	CTRL TO CTRL	2
1002250300	30	85	152	10	PCIE	3
1002250301	30	85	300	10	PCIE	3
1002250302	30	85	500	10	PCIE	3
1002250303	30	85	600	10	PCIE	3
1002250304	30	85	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	5:1			8X INTERNAL HD SHORT BODY RIGHT ANGLE DOWN CBL ASSY 85 OHM
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)				
▽ = 0	ANGULAR TOL ± 0.5°		EC NO: 630017		PRODUCT CUSTOMER DRAWING
▽ = 0	4 PLACES	±	DRWN: RCHEN34 2020/01/06		
▽ = 0	3 PLACES	±	CHK'D: VPENG01 2020/01/09		DOCUMENT NUMBER: 1002250100 DOC TYPE: PSD DOC PART: 000 REVISION: G
▽ = 0	2 PLACES	± 0.13	APPR: VPENG01 2020/01/09		
▽ = 0	1 PLACE	± 0.25	INITIAL REVISION:		MATERIAL NUMBER: SEE CHART CUSTOMER: GENERAL MARKET SHEET NUMBER: 1 OF 4
▽ = 0	0 PLACES	±	DRWN: CYEH03 2017/12/19		
▽ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPR: VPENG01 2018/08/31		
▽ = 0	THIRD ANGLE PROJECTION		DRAWING		
▽ = 0	D-DRAWING		SERIES		
	D-DRAWING		100225		

PINOUT 1

	P1		NC	P2	
	GND	D9	NC	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	NC	A9	GND
	GND	B9	NC	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	NC	C9	GND

C O N T R O L L E R

B A C K P L A N E

PINOUT 2

	P1		NC	P2	
	GND	D9	NC	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	NC	A9	GND
	GND	B9	NC	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	NC	C9	GND

C O N T R O L L E R

C O N T R O L L E R

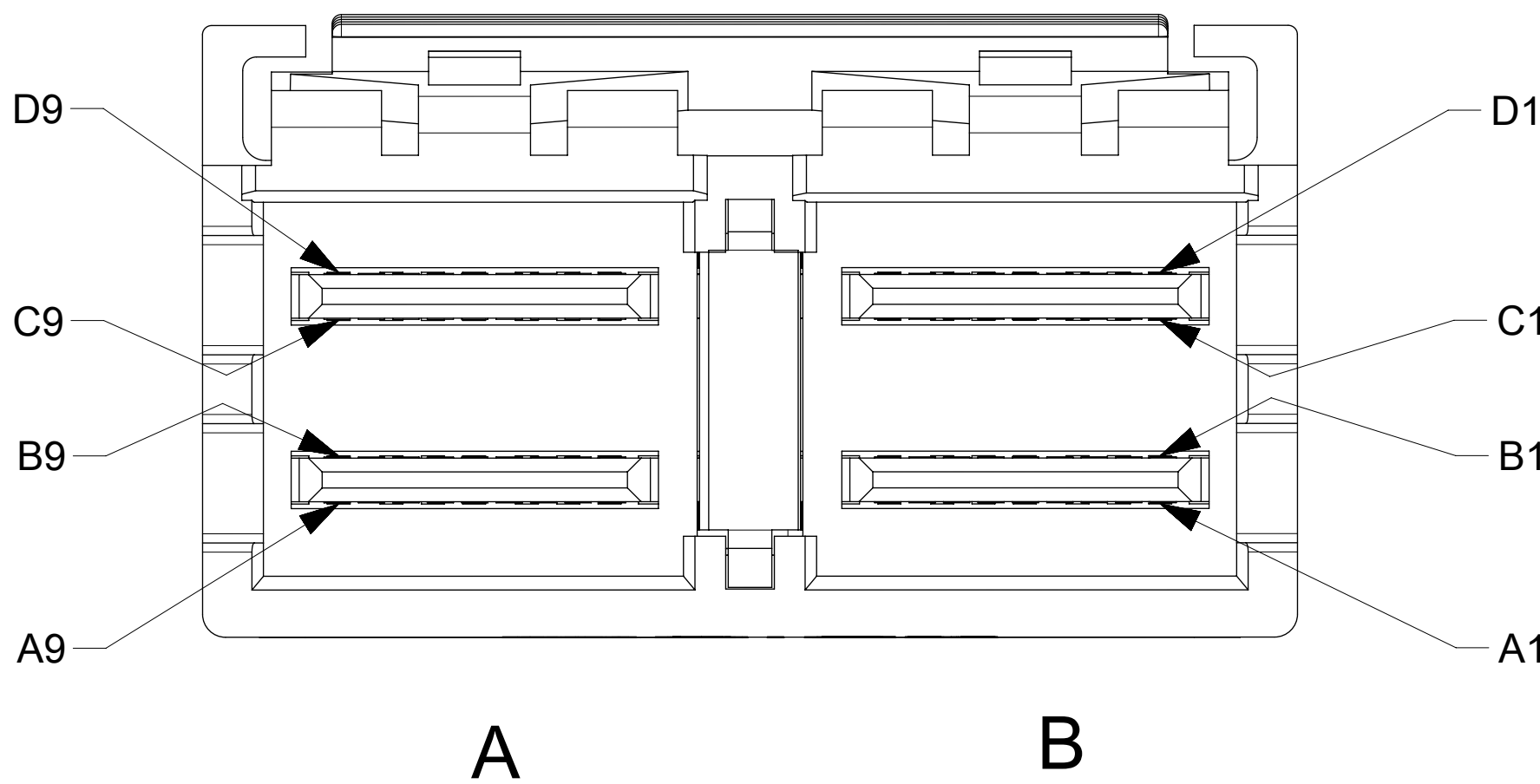
PINOUT 3

	P1		NC	P2	
	GND	D9	NC	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
	WAKEn	C1	=====	C2	CWAKEn
	RSTn	C2	=====	C1	CPERSTn
	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	NC	C9	GND
	GND	B9	NC	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

P C I E

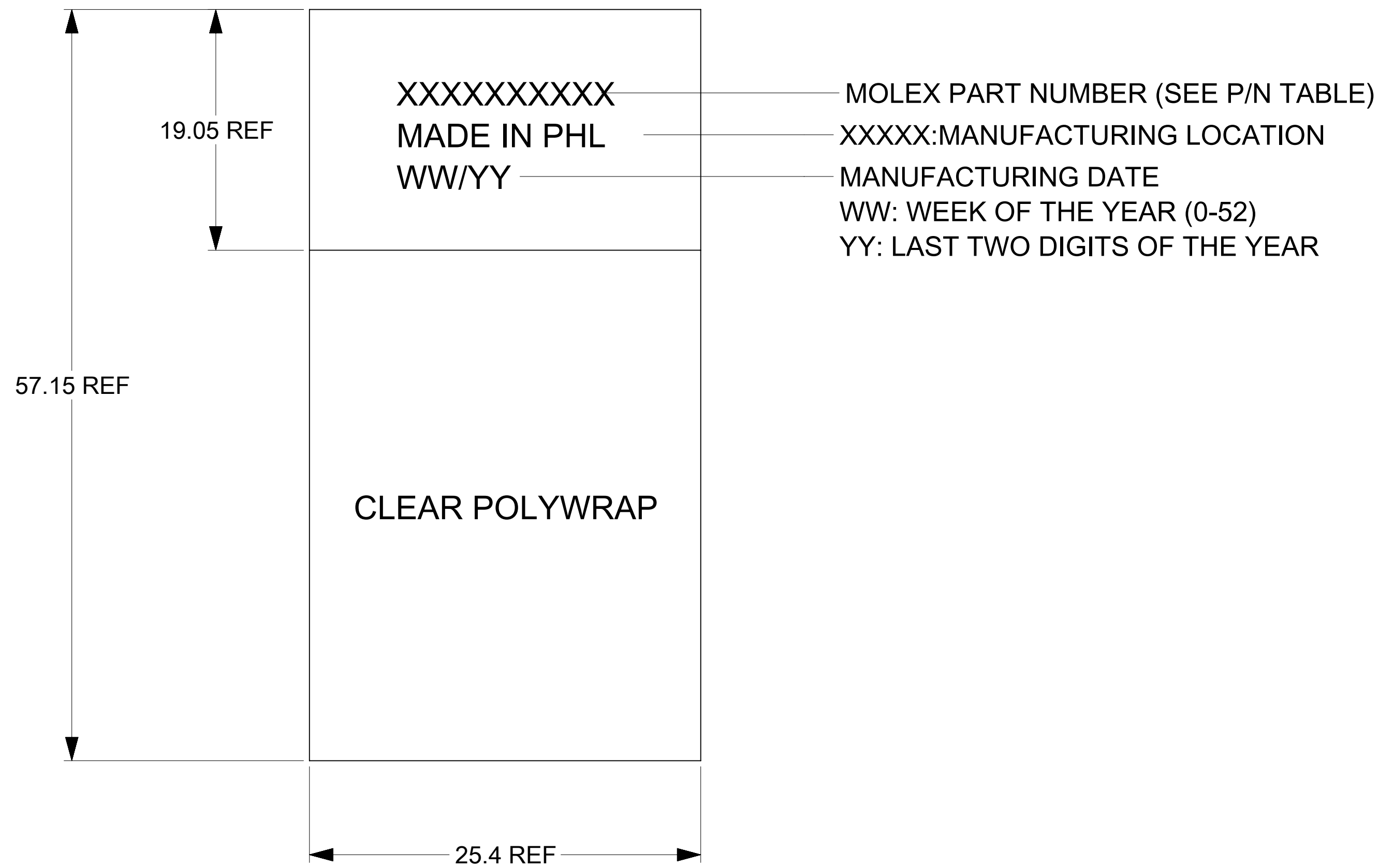
P C I E

===== = THRU LINES
 ----- = GND
 -----> = TRANSMIT TO RECEIVE ON HIGH SPEED CIRCUITS
 <----- = NOT CONNECTED



SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
	DIMENSION UNITS	SCALE
▽ = 0	mm	7:1
▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)	
▽ = 0	ANGULAR TOL	± 0.5°
▽ = 0	4 PLACES	±
▽ = 0	3 PLACES	±
▽ = 0	2 PLACES	± 0.13
▽ = 0	1 PLACE	± 0.25
▽ = 0	0 PLACES	±
■ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	
▽ = 0	THIRD ANGLE PROJECTION	DRAWING SERIES
		D-SIZE 100225
	CURRENT REV DESC:	EC NO: 630017
		DRWN: RCHEN34 2020/01/06
		CHK'D: VPENG01 2020/01/09
		APPR: VPENG01 2020/01/09
	INITIAL REVISION:	
	DRWN: CYEH03 2017/12/19	
	APPR: VPENG01 2018/08/31	
	DOCUMENT NUMBER	
	1002250100	
	DOC TYPE	DOC PART
	PSD	000
	REVISION	
	G	
	MATERIAL NUMBER	CUSTOMER
	SEE CHART	GENERAL MARKET
	SHEET NUMBER	
	2 OF 4	

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:
= 0	mm	1:1	EC NO: 630017 DRWN: RCHEN34 2020/01/06 CHK'D: VPENG01 2020/01/09 APPR: VPENG01 2020/01/09 INITIAL REVISION: DRWN: CYEH03 2017/12/19 APPR: VPENG01 2018/08/31
= 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		
= 0	ANGULAR TOL ± 0.5°		
= 0	4 PLACES ±		
= 0	3 PLACES ±		
= 0	2 PLACES ± 0.13		
= 0	1 PLACE ± 0.25		
= 0	0 PLACES ±		
= 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING SERIES
= 0			D-SIZE 100225
DOCUMENT STATUS		RELEASE DATE	2020/01/09 03:45:27
P1			
DOCUMENT NUMBER		DOC TYPE	DOC PART
1002250100		PSD	000
MATERIAL NUMBER		CUSTOMER	SHEET NUMBER
SEE CHART		GENERAL MARKET	3 OF 4

MIGRATED DRAWING

See PDF and DXF file in ORIGINALS
for drawing content

QUALITY SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
= 0	EC NO: 603676 DRWN: PHSU01 CHK'D: VPENG01 APPR: VPENG01	2018/08/30 2018/09/03 2018/09/03	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS	SCALE	molex					
= 0			ANGULAR TOL ± 0.5 °		mm	1:1						
= 0			4 PLACES ±	DRWN BY		DATE		8X INTERNAL HD SHORT BODY RIGHT ANGLE DOWN CBL ASSY 85 OHM				
= 0			3 PLACES ±	TPRATT		2014/04/23						
= 0			2 PLACES ± 0.13	CHK'D BY		DATE						
= 0			1 PLACE ± 0.25	PSYTSMA		2014/04/23		PRODUCT CUSTOMER DRAWING				
= 0			0 PLACES ±	APPR BY		DATE						
= 0			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		CHIRSCHY		2014/04/30		SERIES	MATERIAL NUMBER	CUSTOMER	
= 0					DRAWING SIZE	THIRD ANGLE PROJECTION		100225		GENERAL MARKET		
			F	REV	B			DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER	
						SD-100225-0100	PSD	001	1 OF 1			