

**NOTES:**

1. MATERIAL:  
 MINISAS HD:  
 HOUSING - NYLON, 94 V-0  
 GLASS FILLED 20%  
 LATCH - MOLDED INTO HOUSING  
 MINISAS:  
 OVERMOLD- POLYBUTYLENE TEREPHTHALATE (PBT)  
 94-V0 GLASS FILLED 30%  
 LATCH - STAINLESS STEEL  
 EXPANDO - POLYETHYLENE TEREPHTHALATE (PET)  
 CABLE - SIGNALS:  
 SOLID COPPER SIGNAL AND DRAIN  
 INNER DIELECTRIC: FEP  
 TWIN-AX SHIELD: ALUMINIZED POLYESTER FOIL  
 JACKET: MYLAR  
 PCB - HE679G HALOGEN FREE (HD & SAS)
2. THIS PRODUCT CONFORMS TO THE MECHANICAL DIMENSIONING OF SFF-8643 AND ELECTRICAL PERFORMANCE REQUIREMENTS OF SAS 3.0
3. RoHS COMPLIANT, NO EXEMPTIONS.

MOLEX P/N	AWG	LENGTH(M)	TOL	DIM B	DIM C	DESCRIPTION	PINOUT
1001400100	30	0.152	+/-10	52	12	CTRL (HD) TO BP	1
1001400101	30	0.300	+/-10	100	30	CTRL (HD) TO BP	1
1001400102	30	0.500	+/-10	200	30	CTRL (HD) TO BP	1
1001400103	30	0.600	+/-10	250	30	CTRL (HD) TO BP	1
1001400104	30	1.000	+/-15	450	30	CTRL (HD) TO BP	1
1001400200	30	0.152	+/-10	52	12	CTRL TO CTRL	2
1001400201	30	0.300	+/-10	100	30	CTRL TO CTRL	2
1001400202	30	0.500	+/-10	200	30	CTRL TO CTRL	2
1001400203	30	0.600	+/-10	250	30	CTRL TO CTRL	2
1001400204	30	1.000	+/-15	450	30	CTRL TO CTRL	2
1001400300	30	0.152	+/-10	52	12	PCIE	3
1001400301	30	0.300	+/-10	100	30	PCIE	3
1001400302	30	0.500	+/-10	200	30	PCIE	3
1001400303	30	0.600	+/-10	250	30	PCIE	3
1001400304	30	1.000	+/-15	450	30	PCIE	3

<b>INITIAL RELEASE</b> IEC NO: CPG2015-4302 2017/03/23 DRAWN/001 2017/03/23 CHKDRHSJ01 APPR:RHSJ01 2017/05/12 REV DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) DIMENSION STYLE <b>MM ONLY</b> SCALE <b>4:1</b> DESIGN UNITS <b>METRIC</b> THIRD ANGLE PROJECTION	DRAWN BY DATE TPRATT 2014/06/09 CHECKED BY DATE PSYTSMA 2014/06/09 APPROVED BY DATE RHSU01 2017/05/12	TITLE <b>4X INTERNAL HD SHORT BODY TO 36 CKT MINISAS CBL ASSY 100 OHM</b> <b>molex</b> MATERIAL NO. SD-100140-0100 DOCUMENT NO. SD-100140-0100 SHEET NO. 1 OF 3
	ANGULAR ±1/2° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE P/N TABLE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	

PINOUT 1

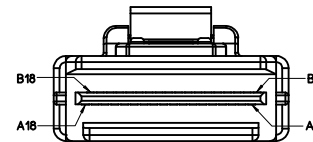
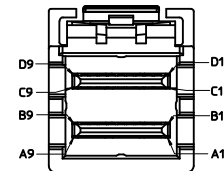
PINOUT 2

PINOUT 3

P1			P2		
GND	D3	----	A1	GND	
TX0+	D4	---	A2	RX0+	
TX0-	D5	---	A3	RX0-	
GND	C3	----	A4	GND	
TX1+	C4	---	A5	RX1+	
TX1-	C5	---	A6	RX1-	
GND	D9	----	A7	GND	
SB7	A2	---	A8	SB7	
SB3	B2	---	A9	SB3	
SB4	C2	---	A10	SB4	
SB5	D2	---	A11	SB5	
GND	D6	----	A12	GND	
TX2+	D7	---	A13	RX2+	
TX1-	D8	---	A14	RX2-	
GND	C6	----	A15	GND	
TX3+	C7	---	A16	RX3+	
TX3-	C8	---	A17	RX3-	
GND	C9	----	A18	GND	
GND	B3	----	B1	GND	
RX0+	B4	---	B2	TX0+	
RX0-	B5	---	B3	TX0-	
GND	A3	----	B4	GND	
RX1+	A4	---	B5	TX1+	
RX1-	A5	---	B6	TX1-	
GND	B9	----	B7	GND	
SB0	A1	---	B8	SB0	
SB1	B1	---	B9	SB1	
SB2	C1	---	B10	SB2	
SB6	D1	---	B11	SB6	
GND	B6	----	B12	GND	
RX2+	B7	---	B13	TX2+	
RX2-	B8	---	B14	TX2-	
GND	A6	----	B15	GND	
RX3+	A7	---	B16	TX3+	
RX3-	A8	---	B17	TX3-	
GND	A9	----	B18	GND	

P1			P2		
GND	D3	----	A1	GND	
TX0-	D5	---	A3	RX0-	
GND	D6	----	A2	RX0+	
TX2-	D8	---	A12	GND	
TX2+	D7	---	A14	RX2-	
GND	D9	----	A13	RX2+	
SB6	D2	---	A15	GND	
SB7	A1	---	B9	SB1	
SB5	D1	---	B8	SB0	
SB4	C1	---	B10	SB2	
GND	C6	----	A9	SB3	
TX3+	C7	---	A18	GND	
TX3-	C8	---	A16	RX3+	
GND	C3	----	A17	RX3-	
TX1+	C4	---	A7	GND	
TX1-	C5	---	A5	RX1+	
GND	C9	----	A6	RX1-	
GND	B3	----	A4	GND	
RX0-	B5	---	B1	GND	
RX0+	B4	---	B3	TX0-	
GND	B6	----	B2	TX0+	
RX2-	B8	---	B12	GND	
RX2+	B7	---	B14	TX2-	
GND	B9	----	B13	TX2+	
SB2	C2	---	B15	GND	
SB3	B1	---	A11	SB5	
SB1	B2	---	A10	SB4	
SB0	A2	---	B11	SB6	
GND	A6	----	A8	SB7	
RX3+	A7	---	B18	GND	
RX3-	A8	---	B16	TX3+	
GND	A9	----	B17	TX3-	
RX1+	A4	---	B5	TX1+	
RX1-	A5	---	B6	TX1-	
GND	A3	----	B4	GND	

P1			P2		
GND	D3	----	A1	GND	
TX0+	D4	---	A2	RX0+	
TX0-	D5	---	A3	RX0-	
GND	D6	----	A4	GND	
TX1+	C4	---	A5	RX1+	
TX1-	C5	---	A6	RX1-	
GND	C6	----	A7	GND	
2W-CLK	A2	---	A8	2W-CLK	
2W-DATA	B2	---	A9	2W-DATA	
PERST#	D1	---	A10	PERST#	
CPRSNT#	D2	---	A11	CPRSNT#	
GND	A3	----	A12	GND	
TX2+	D7	---	A13	RX2+	
TX1-	D8	---	A14	RX2-	
GND	D9	----	A15	GND	
TX3+	C7	---	A16	RX3+	
TX3-	C8	---	A17	RX3-	
GND	C9	----	A18	GND	
GND	B3	----	B1	GND	
RX0+	B4	---	B2	TX0+	
RX0-	B5	---	B3	TX0-	
GND	B6	----	B4	GND	
RX1+	A4	---	B5	TX1+	
RX1-	A5	---	B6	TX1-	
GND	A6	----	B7	GND	
BP_TYPE	A1	---	B8	BP_TYPE	
B1			B12		
CLK+	C1	---	B10	CLK+	
CLK-	C2	---	B11	CLK-	
GND	C3	----	B9	GND	
RX2+	B7	---	B13	TX2+	
RX2-	B8	---	B14	TX2-	
GND	B9	----	B15	GND	
RX3+	A7	---	B16	TX3+	
RX3-	A8	---	B17	TX3-	
GND	A9	----	B18	GND	

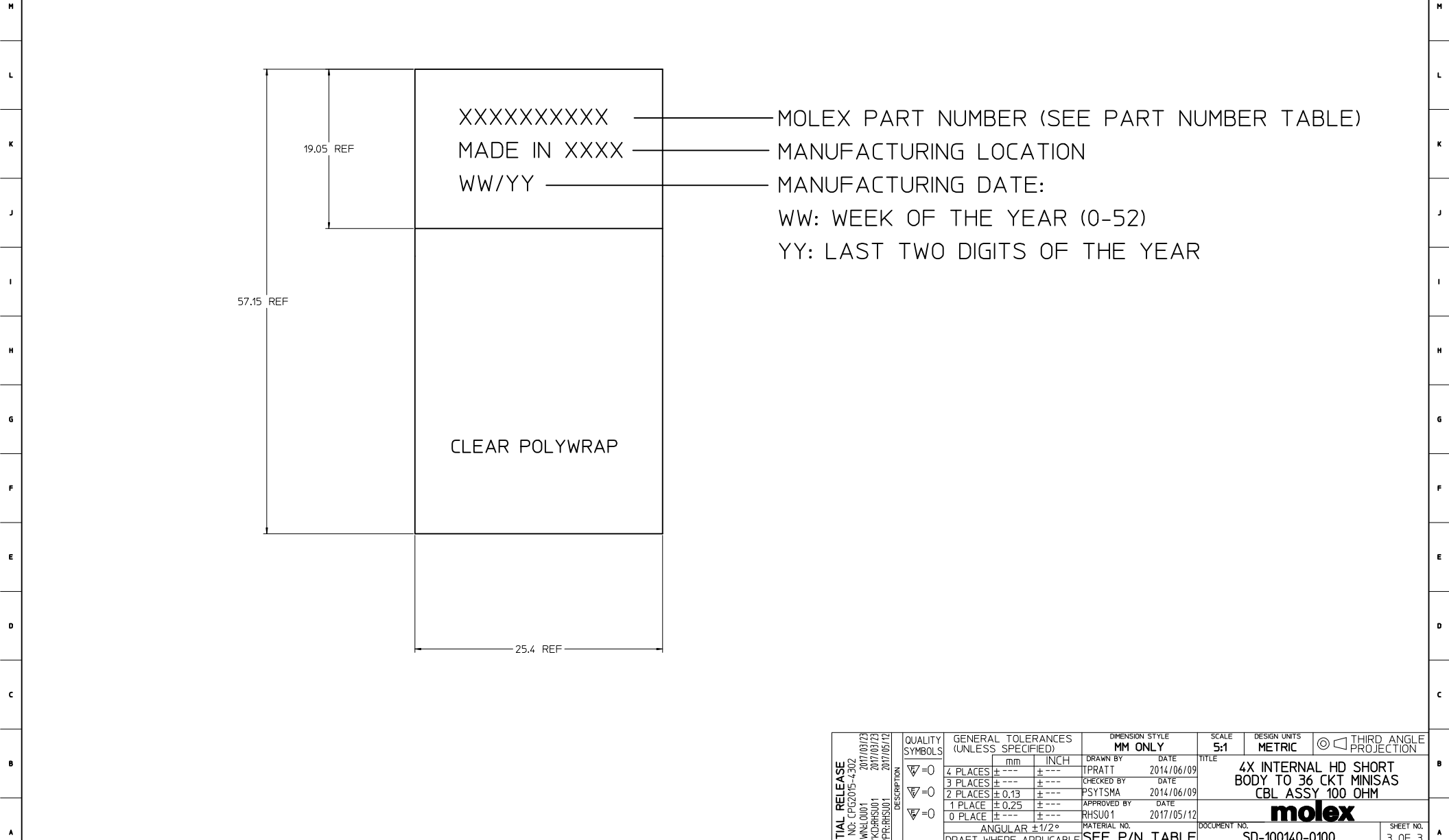


LEGEND:

- = GND
- > = TRANSMIT TO RECEIVE ON HIGH SPEED CIRCUITS
- = SIDEBAND

INITIAL RELEASE EC NO. CPG2015-4302 DRAWN/001 CHYDR/SUM1 APPR/RHS/01 2017/03/23 2017/03/23 2017/05/12	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE <b>MM ONLY</b>	SCALE <b>5:1</b>	DESIGN UNITS <b>METRIC</b>	THIRD ANGLE PROJECTION		
		4 PLACES ±0.13 3 PLACES ±0.25 2 PLACES ±0.50 1 PLACE ±1.00 0 PLACE ±2.00	mm INCH	DRAWN BY TPRATT	DATE 2014/06/09	TITLE <b>4X INTERNAL HD SHORT BODY TO 36 CKT MINISAS CBL ASSY 100 OHM</b>			
		ANGULAR ±1/2° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE P/N TABLE	DATE 2017/05/12	DOCUMENT NO. <b>SD-100140-0100</b>			
				SHEET NO. 2 OF 3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1



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		4 PLACES ±--- ±---	3 PLACES ±--- ±---	2 PLACES ±0.13 ±---	1 PLACE ±0.25 ±---	0 PLACE ±--- ±---	DRAWN BY: TPRATT DATE: 2014/06/09	CHECKED BY: PSYTSMA DATE: 2014/06/09	APPROVED BY: RHSU01 DATE: 2017/05/12	TITLE <b>4X INTERNAL HD SHORT BODY TO 36 CKT MINISAS CBL ASSY 100 OHM</b>
		ANGULAR ±1/2°		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. <b>SEE P/N TABLE</b>	DOCUMENT NO. <b>SD-100140-0100</b>	SHEET NO. <b>3 OF 3</b>		
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19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1