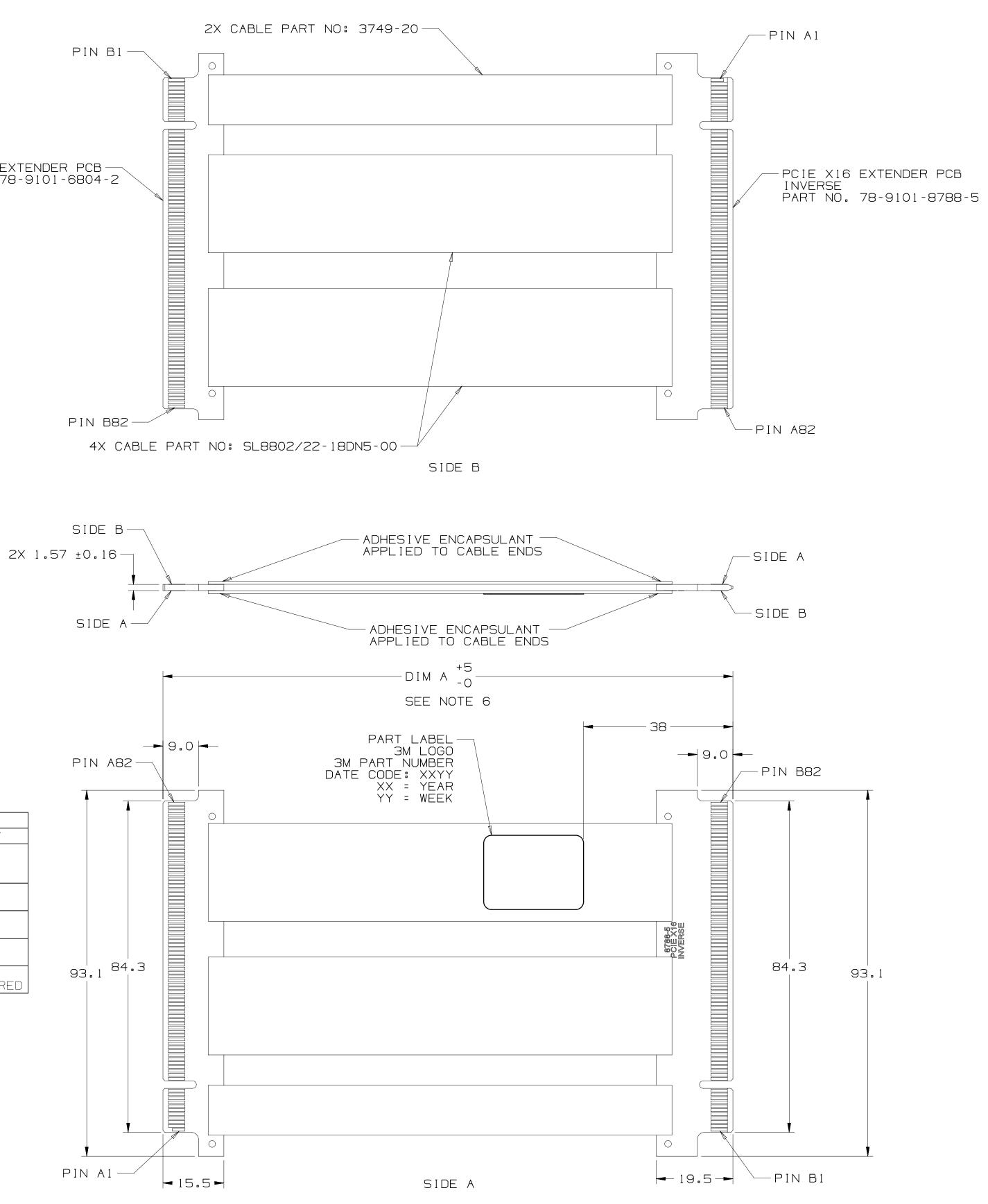
8			7				E	$\hat{}$	
3M™ TWIN	AXIAL	PCI	EXPRESS	X16	MAL	E - TO - M	ALE	CABLE	A53
					F F	PCIE X16 EX Part no. 7e	(TENDEF 3-9101-	PIN B1 R PCB -6804-2	

PIN B82



		BILL OF MATERIALS	
	ITEM	DESCRIPTION	QTY
1.0	PCB	PCIE X16 EXTENDER (164 POS) CARD-EDGE INVERSE 3M P/N: 78-9101-8788-5	1
2.0	РСВ	PCIE X16 EXTENDER (164 POS) CARD-EDGE 3M P/N: 78-9101-6804-2	1
3.0	CABLE	RIBBON TWIN AX CABLE 3M P/N: SL8802/22-18DN5-00	4
4.0	CABLE	RIBBON CABLE, 20 POSITION 3M P/N: 3749-20	2
5.0	STRAIN Relief	ADHESIVE	AS REQUIRED

3M ELECTRONICS MATERIALS SOLUTIONS DIVISION INTERCONNECT SOLUTIONS http://www.3mconnectors.com

3M IS A TRADEMARK OF 3M COMPANY. For technical, sales or ordering information call 800-225-5373

 \square

 \square

В

А



3

2

SEMBLY

4

5

З

		1	
		NOTES	I
1	DIN	MENSIONS ARE IN MILLIMETERS.	
2	30 IMF OVE	M RIBBON TWINAX DESCRIPTION: AWG, SILVER PLATED SIGNAL WIRE PEDANCE: 85 ±5 OHM ERALL RIBBON WIDTH: 24.90 MM ERALL RIBBON THICKNESS: 0.75 MM	
Э	INF CON WWW	HS COMPLIANT. SEE REGULATORY FORMATION APPENDIX IN "ROHS MPLIANCE" SECTION AT M.3MCONNECTORS.COM & C1 APPLY)	
4	HAS AT EVA APF INS COV	S CABLE CONSTRUCTION A THIN ALUMINUM LAYER EACH EDGE. USER SHOULD ALUATE ITS USE IN THEIR PLICATION AND, IF NECESSARY, GULATING TAPE MAY BE APPLIED TO VER THE ALUMINUM LAYER, AS USER EMS APPROPRIATE.	
5	PRC TWI	PLICABLE SPECIFICATIONS: DDUCT SPECIFICATION NUMBER: N AX CABLE: PS-0106 BLE ASSEMBLY: PS-0137	
6		DER BY APPLICABLE 3M PART NUMBER: 25-0742-XXXX	
	XXX	(X = DIM 'A' IN MILLIMETERS (1000 = 1 METER)	
	8KC	NDARD LENGTH (DIM 'A') 5-0742-0250 (250 MM) 5-0742-0500 (500 MM)	
	UPC	N-STANDARD LENGTHS AVAILABLE ON SPECIAL REQUEST. MAY REQUIRE GHER MOQS AND LONGER LEAD TIMES.	
7	ΤWΙ	AMMABILITY RATING: In Ax cable: ul94 hb 35: ul94v-0	\square
8	O.7 HAF	DDLECARD FINGER GOLD THICKNESS: 76 µm [30 µ"] MIN ELECTROLYTIC RD GOLD OVER 1.27 µm [50 µ"] N ELECTROLYTIC NICKEL.	

D 84237 APR 23,2019 LDS TS REVISED PART LABEL C 77002 DEC 14,2017 AD LS PIN DEFINITION A50 WAS A33,20NE 84, SH2; ADDED SH3 WARRANTY INFO B 48418 JUN 19,2013 LDS TS ADDED SIDE A & SIDE B INDICATORS A 46893 MAR 27,2013 LDS TS WORK REQUEST 11618 INITIAL RELEASE DESIGN REFERENCE NEXT ASSEMBLY REV EC0 ISSUE DATE AND DESCRIPTION DRFT CHKD DESIGN REFERENCE NEXT ASSEMBLY REV EC0 ISSUE DATE AND DESCRIPTION DRFT CHKD DESIGN REFERENCE NEXT ASSEMBLY REV EC0 ISSUE DATE AND DESCRIPTION DRFT CHKD DESIGN REFERENCE NEXT ASSEMBLY REV EC0 ISSUE DATE AND DESCRIPTION DRFT CHKD DESIGN REFERENCE NEXT ASSEMBLY REV EC0 ISSUE DATE AND DESCRIPTION DRFT CHKD DESIGN REFERENCE NEXT ASSEMBLY REV EC0 ISSUE DATE AND DESCRIPTION DRFT CHKD DIVISION DIVISION COCCE DO NOT SCALE SCALE DO NOT SCALE TOLERANCES DATE TOLERANCES DATE TOLERANCES INCLES 11 NUMBER 1 INCLES NUMBER 1 INCLES 11 MAX SUBFACE ROUGHNESS 125 MAX SUBFACE ROUGHNESS 125								
C 77002 DEC 14,2017 AD LS PIN DEFINITION A50 WAS A33, ZONE B4, SH2; ADDED SH3 WARRANTY INFO AD LS B 48418 JUN 19,2013 LDS TS ADDED SIDE A & SIDE B INDICATORS ADEC SIDE A & SIDE B INDICATORS A 46893 MAR 27,2013 LDS TS MORE REV ECO ISSUE DATE AND DESCRIPTION DRT CHKD MAR 27,2013 MFE ONT DATE DATE DATE MAR 27,2013 MFE ONT DATE DATE DATE MAR 27,2013 MFE ONT DATE DATE DATE MAR 28,2013 MAR 27,2013 MFE DATE DATE DATE MAR 28,2013 MAR 28,2013 MAR 28,2013 MAR 28,2013 MAR 28,2013 MAR 28,2013 MAR 28,2013 MAR 27,2013 MAR 28,2013 MAR 28,2013 MAR 28,2013 MAR 28,2013 MAR 28,2013 MAR 27,2013 MAR 27,2013 MAR 28,2013 MAR 28,2013 MAR 28,2013 MAR 28,2013 MAR 28,2013 MAR 28,2013 MAR 28,			D	84237	APR 23	,2019	LDS	TS
PIN DEFINITION A50 WAS A33, ZONE B4, SH2; ADDED SH3 WARRANTY INFO B 48418 JUN 19,2013 LDS TS ADDED SIDE A & SIDE B INDICATORS A 46893 MAR 27,2013 LDS TS WORK REQUEST 11618 INITIAL RELEASE DESIGN REFERENCE NEXT ASSEMBLY REV ECO ISSUE DATE AND DESCRIPTION DRFT CHKD DESIGN REFERENCE NEXT ASSEMBLY REV ECO ISSUE DATE AND DESCRIPTION DRFT CHKD DESIGN REFERENCE NEXT ASSEMBLY REV ECO ISSUE DATE AND DESCRIPTION DRFT CHKD DESIGN REFERENCE NEXT ASSEMBLY REV ECO ISSUE DATE AND DESCRIPTION DRFT CHKD DO NOT SCALE DO NOT SCALE TOLEFRANCES NOTED DIVISION					REVISED P	ART LABEL		
WAS A33, ZONE B4, SH2; ADDED SH3 WARRANTY INFO B 48418 JUN 19,2013 LDS TS ADDED SIDE A & SIDE B INDICATORS A 46893 MAR 27,2013 LDS TS WORK REQUEST 11618 INITIAL RELEASE DESIGN REFERENCE NEXT ASSEMBLY REV ECO ISSUE DATE AND DESCRIPTION DRFT CHKD DFT SCHMIDT DATE TSUNGA MAR 28,2013 DIVISION DIVISION CODE DO NOT SCALE SCALE DO NOT SCALE SCALE TOLERANCES CALE TOLERANCES COD t INCHES O t MILLIMETERS A 146893 MAR 27,2013 LDS TS WORK REQUEST 11618 INITIAL RELEASE DFT SCHMIDT DATE TSUNGA MAR 28,2013 MAR 28,2013 MAR 28,2013 MAR 28,2013 MAR 28,2013 DT SCHMIDT DATE DT SCHMIDT DATE COD NOT SCALE SCALE TOLERANCES COD t OV T INCHES O t INCHES O t INCHES O t INCHES ISSUE DATE AND DESCRIPTION DRFT CHKD DT SCHMIDT DATE THE BKCS - 0742 - XXXX, CABLE ASSY, MALE PCIE X16 TO MALE PCIE X16 TO MALE PCIE X16 TO MALE PCIE X16 CAGE SIZE DRAWING NO. NUMBER IZE DRAWING NO. NUMBER IZE DRAWING NO. NUMBER IZE DRAWING NO. NUMBER IZE DRAWING NO. TO TR - 5100 - 2586 - 5 D			С	77002	DEC 14	,2017	AD	LS
A 46893 MAR 27,2013 LDS TS NORK REQUEST 11618 INITIAL RELEASE DESIGN REFERENCE NEXT ASSEMBLY A 46893 MAR 27,2013 LDS TS WORK REQUEST 11618 INITIAL RELEASE DATE AND DESCRIPTION DRFT CHKD DATE					WAS A33, SH2; ADDE	ZONE B4, D SH3		
INDICATORS INDICATORS A 46893 MAR 27,2013 LDS TS WORK REQUEST 11618 INITIAL RELEASE INITIAL RELEASE DESIGN REFERENCE NEXT ASSEMBLY REV ECO ISSUE DATE AND DESCRIPTION DRFT A 46893 MAR 27,2013 MFG DATE DATE DATE A DESIGN REFERENCE NEXT ASSEMBLY REV ECO ISSUE DATE AND DESCRIPTION DRFT CHKD A DIVISION CODE DATE DATE TSUNIGA MAR 28,2013 DIVISION CODE DIVISION CODE DATE TSUNIGA MAR 28,2013 DO NOT SCALE TOLERANCES EXCEPT AS MAR 5144 This document and the information it contains are disclosed other than formation it contains are disclosed other than formation is on used or disclosed other than for 3M authorized purposes. THIRD ANGLE PROJECTION NODE TITLE SKC5 - 0742 - XXXX g CABLE ASSY g MALE PCIE X10 TO MALE CAGE <td< td=""><td></td><td></td><td>В</td><td>48418</td><td>JUN 19</td><td>,2013</td><td>LDS</td><td>TS</td></td<>			В	48418	JUN 19	,2013	LDS	TS
WORK REQUEST 11618 DESIGN REFERENCE NEXT ASSEMBLY REV ECO INITIAL RELEASE DIVISION DRFT CODES OHKD DIVISION DIVISION CODE DIVISION DIVISION CODE DIVISION DIVISION CODE DIVISION DIVISION CODE DIVISION TOLERANCES SCALE TOLERANCES NOTED TOLERANCES NOTED TITLE DRAWING INCHES OW 0.0 OW SSI44 THIRD ANGLE PROJECTION MILLIMETERS OW 0.0 INTERPRET PER MILLIMETERS ASME Y14.5 - 2009 MILLIMETERS INTERPRET PER MILLIMETERS OW 1.0 MAX SURFACE ROUGHNESS .00 125 ALL SURFACES OW .00 OW .00 EXCEPT AS .00 .00 ± 1 .00 ± 1 .00 ± 1 .00								
INITIAL RELEASE DESIGN REFERENCE NEXT ASSEMBLY REV ECO ISSUE DATE AND DESCRIPTION DRFT CHKD ACCESS DATE DATE MAR 27,2013 MrG DATE DIVISION DIVISION CODE CHKD DATE APPVL SUNIGA DATE APPVL WAR 28,2013 DIVISION DIVISION CODE TOLERANCES EXCEPT AS NOTED TOLERANCES EXCEPT AS NOTED State NOTED This document and the information it contains are distributed without 3M permission, or used or distributed wit			Α	46893	MAR 27	,2013	LDS	TS
DESIGN REFERENCE NEXT ASSEMBLY REV ECO ISSUE DATE AND DESCRIPTION DRT CHKD ACCESS OHR DATE DATE DATE DATE DATE DATE DIVISION DIVISION CODE DIVISION CODE DATE TSUNIGA MAR 28,2013 DIVISION DIVISION CODE DIVISION CODE © 3M COPYRIGHT 2019 This document and the information it contains are stored without 3M permission, or used or distributed wit					WORK REQL	IEST 11618		
ACCESS DATE DATE DATE DATE DATE DATE CODES DIVISION DIVISION CODE DATE					initial f	RELEASE		
DIVISION DIVISION CODE DIVISION CO	DESIGN REFERENCE NEXT	ASSEMBLY	REV	ECO	ISSUE DATE AN	D DESCRIPTION	DRFT	CHKD
DIVISION DIVISION CODE DIVISION CODE TOLERANCES EXCEPT AS NOTED TOLERANCES EXCEPT AS NOTED TITLE TITLE SCALE DRAWING TITLE SCALE THIRD ANGLE PROJECTION INCHES 0 t 00 t NOTED TITLE SKC5 - 0742 - XXXX, CABLE ASSY, MALE PCIE X16 TO MALE PCIE X16 TO MALE PCIE X16 CAGE SIZE DRAWING NO. NOTED TO SM COPYRIGHT 2019 This document and the information it contains are SM property and may not be reproduced or further SM property and may not be reproduced or further SM property and may not be reproduced or further SM content 3M property and may not be reproduced or further SM authorized purposes. All rights reserved. TITLE SKC5 - 0742 - XXXX, CABLE ASSY, MALE PCIE X16 TO MALE PCIE X16 CAGE SIZE DRAWING NO. NUMBER D 78 - 5100 - 2586 - 5 D 78 - 5100 - 2586 - 5 D			DRFT	CHMIDT	MAR 27,2013	MFG	DATE	
DO NOT SCALE TOLERANCES SM Center This document and the information it contains are my property and may not be reproduced or further distributed without 3M property and may not be reproduced or further distributed without 3M property and may not be reproduced or further distributed without 3M property and may not be reproduced or further distributed without 3M property and may not be reproduced or further distributed without 3M property and may not be reproduced or further distributed without 3M property and may not be reproduced or further distributed without 3M property and may not be reproduced or further distributed without 3M property and may not be reproduced or further distributed without 3M property and may not be reproduced or further distributed without 3M property and may not be reproduced or further distributed without 3M property and may not be reproduced or further distributed without 3M property and may not be reproduced or further distributed without 3M property and may not be reproduced or further distributed without 3M property and may not be reproduced or further distributed without 3M property and may not be reproduced or further distributed without 3M property and may not be reproduced or further distributed without 3M property and may not be reproduced or further distributed without 3M property and may not be reproduced or further distributed without 3M property and may not be reproduced or further distributed without 3M property and may not be reproduced or further distributed without 3M property and may not be reproduced or further distributed without 3M property and may not be reproduced or further distributed without 3M property and may not be reproduced or further distributed without 3M property and may not be reproduced or further distributed without 3M property and may not be reproduced or further distributed without 3M property and may not be reproduced or further distributed without 3M propr			СНКД		DATE	TSUNIGA	MAR 28	3,2013
DO NOT SCALE SCALE DRAWING 1 TOLERANCES SCALE DRAWING 1 TOLERANCES NOTED TOLERANCES NOTED TITLE THIRD ANGLE PROJECTION MILLIMETERS ASME Y14.5 - 2009 MAX SURFACE ROUGHNESS 125 ALL SURFACES NOTED TOLERANCES NOTED TOLERANCES NOTED TOLERANCES NOTED TITLE SCALE NOTED TITLE SCALE NOTED TITLE SCALE NOTED TITLE SCALE NOTED TITLE SCALE NOTED TITLE SKC5 - 0742 - XXXX, CABLE ASSY, MALE PCIE X16 TO MALE PCIE X16 NO ± 15 O ± 15 O ± 05 O ± 05 O ± 05 O ± 05 O ± 05 O ± 005 NOTED TO MALE PCIE X16 NOTED TO MALE PCIE X16 NOTED TO MALE PCIE X16 NOTED TO TO MALE PCIE X16 NOTED TO TO T	DIVISION	DIVISION CODE		ж				
INCHES INCHES INCHES INTERPRET PER .0 ± ASSY, MALE PCIE X16 INTERPRET PER ASME Y14.5 - 2009 MAX SURFACE ROUGHNESS 125 ALL SURFACES .0 ±.05 .00 ±.05 MODEL	SCALE <u>1</u>	EXCEPT AS	3	st.	Paul, 3M property and distributed wi 55144 disclosed other	d may not be reproduced thout 3M permission, or r than for 3M authorize	contains or furth used or d purpose	are er s.
ASME Y14.5 - 2009 MAX SURFACE ROUGHNESS 125 ALL SURFACES 000 ± .005 000 ±		.0 .00 .000 ±	8	KC5		XXX, C E PCIE	X 1 E	_E 5
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		O ± 1		ТC	MALE	PCIE X	16	
	MAX SURFACE ROUGHNESS	1.0 ±.5	CA		DRAWING NO.			REV.
	125 / \Box all surfaces	.00 ±.05		U	<u>78-51</u> 00)-2586-	5	\square

Ű

78-51

В

2

 \square

 \rightarrow

В

A

N N Code N			3M 3749-20 Cable				s X16 Pin-Out			3M 3749-20 Cat	ole
No. No. <th></th> <th>Wire #</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Pin Attachment #</th> <th>١</th>		Wire #								Pin Attachment #	١
No. No. <td></td> <td>01</td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>C</td>		01		_							C
S. No. 2 No		02									C
Set Phi - Phi		03							\neg		
No. No. <td></td> <td>05</td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td>		05		_					-		
S (b)		06							_		
Num Num <td></td> <td>07</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>C</td>		07									C
No. No. No. Control No. Contro No. Contro No. Contro<		08			B08			A08			
No. No. <td></td> <td>09</td> <td>B05</td> <td></td> <td>B09</td> <td></td> <td>+3.3 volt power</td> <td>A09</td> <td></td> <td>A05</td> <td>C</td>		09	B05		B09		+3.3 volt power	A09		A05	C
All All <td></td> <td>10</td> <td>B06</td> <td></td> <td></td> <td></td> <td>+3.3 volt power</td> <td></td> <td></td> <td></td> <td>1</td>		10	B06				+3.3 volt power				1
IA Def P(2) Accord Packad Pick Pick <t< td=""><td></td><td>1 1</td><td></td><td></td><td>B11</td><td></td><td></td><td>A 1 1</td><td></td><td></td><td>1</td></t<>		1 1			B11			A 1 1			1
Image: second		12		_					_		1
14 5 14 5 14 5 14 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>)))</td> <td>1</td>)))	1
Image: Second Labor				- /					_		1
Image: Second		16									1
B III B		17									1
Bit Museum The Stand Name		18									1
No. No. No. No. No. No. No. No. 26 10		19									1
Image: Source Control Image: Source Contro Image: Source Contro <		20					Reserved	A 1 9			2
Size Provide Control Size Size <th< td=""><td></td><td></td><td></td><td>_ /</td><td>B20</td><td>Differential pair</td><td>Ground</td><td>A20</td><td></td><td></td><td></td></th<>				_ /	B20	Differential pair	Ground	A20			
200 Convertions 202 Convertion 202			3M SL8802 Cable	\Box / /		Ground	Receiver Lane 1,			3M SL8802 Cab) e
No. 10 No. 10<			Pin Attachment							Pin Attachment #	
Sec. No. No. No. No. No. Sec. Sec. <td></td> <td></td> <td>]</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>G</td>]								G
House Box Council Coun									-		P
Frage Sector (age) F27 Transmission (age) S2 S2 1 0.03 5.3 1 0.04 1 0.05 0.04 1 0.05				_ / /					-		F
P 2.1 8.1 D23 2.10 Percent of the prime 2.01 Marce Marce <th< td=""><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td>-</td><td></td><td>F</td></th<>				-					-		F
Partial Data Partial P				-					-		F
Socie Description Act Act Act Notice Horsen Lingte Horse		· · · · · · · · · · · · · · · · · · ·		- Y / /]	
File Point All File Point Poi		1					-				
N.1 Secure Apen (200) No.1 Secure Apen (200) No.1 Mean value (200) Add (200) No.1 N											
pr.50 283 Add Add Add pr.50 334 434 Add Add Add pr.50 334 Add Finite State Add Add pr.50 334 Add Add Finite State Add Add pr.50 334 Add Add Finite State Add Add Add Add pr.50 345 Add Add Finite State Add Finite State Add		GND	Ground Layer		B32	Ground	Reserved	A32		Ground Layer	G
Fr. 425 PR3		pr_05	B27								P
No. 65 OC OC <th< td=""><td></td><td>· ·</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>F</td></th<>		· ·									F
17 17 Financial Line Line Lange Constant 17 Financial Line Line Lange Constant 17 Financial Line Lange Constant 17											F
br.32 134 PRA FL/Forward Intervale Pressure All 12 64 77 64 77 64 77 24 64 77 64 77 64 77 24 64 77 64 77 64 77 24 64 77 64 77 64 77 24 64 77 64 77 64 77 24 78 78 78 78 78 78 24 78 78 78 78 78 78 24 78 78 78 78 78 78 25 78 78 78 78 78 78 25 78 78 78 78 78 78 26 78 78 78 78 78 78 26 78 78 78 78 78 <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>F</td>		-							-		F
Ball Counce Layer Desc Store 2 Add Add Add Add 4 - 38 2.42 Store 2 Store 2 Store 2 Store 2 Add		· · · · · · · · · · · · · · · · · · ·							-		F
B: 2.23 D: 3 Prove 3 Prove 1 Prove 1 Prove 1 Prove 3 P				-					\neg		F
Image P41 Uncern Lat. and N. Orans. A41 A50 11/08 442 22 107 descent for point Reservant Late. A42 A63 11/08 444 22.01 107 descent for point Reservant Late. A42 A63 A63 22.01 22.01 22.01 22.01 Reservant Late. A42 A63 A63 A63 22.01 22.01 22.01 22.01 22.01 A44 A44 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>\neg</td> <td>))</td> <td></td>									\neg))	
Private field Private		· ·							\neg		
Participan Prior											
Pr_50 Pd		-									
Image: state Product S		· · · · · · · · · · · · · · · · · · ·	B45			Ground	I I I I I I I I I I I I I I I I I I I				F
Image 347 Result Reset over 1 one 7, 477 Ar7 16.3 Ground Logger 347 Result 177 Ar7 16.3 Ground Logger 346 1, 110, 110, 100, 100, 100, 100, 100, 1											F
Brain Brain <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>F</td></th<>											F
Line High Max and the second Night				_							F
With Subject Cable # Book Part of the Subject of the S		GND	Ground Layer							Ground Layer	0
Bit of X Lip Astronometrial Still 210 Consult Aud Aud SNL Snould Logic Still Snould Logic Still Snould Logic Aud Still Snould Logic Still Snould Logic Still Snould Logic Still		[_	-	
Bit P Feature 1000 Bit P Feature 1000 Feature 10000 Feature 10000 Feature 10000 Feature 10000 Feature 10000 Feature 100000 Feature 100000 Feature 100000 Feature 1000000 Feature 1000000000 Feature				_						3M SL8802 Cab	
Sec.01 Desc.01 Desc.01 Desc.02 Sec.01 Desc.02 Rest.02 Rest.02 <threst.02< th=""> <threst.02< th=""> <thres< td=""><td></td><td></td><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thres<></threst.02<></threst.02<>				_							
Since B34 B34 B34 B34 Since Ground Legen B35 Differential pain A55 AU2 Since Ground Legen B35 Differential pain A55 AU2 Since Ground Legen B35 Differential pain A57 AU2 Since B35 Ground Legen B35 Ground Legen A57 Since B36 B36 B36 B37 Ground Legen A57 Since B36 B30 Bround Legen A57 Ground Legen A57 Since B31 Bround Bround Bround A57 Ground Legen A58 Since B31 Bround Bround B61 A50 A53 Since Bis Bround B10 B62 A61 A61 Since Bis A61 A62 A61 A62 A62 A62 A62 A62 A62 A62 A62 A62				-							6
bit 000 B57 Differential form Promo: A57 A57 ar 0.3 B54 B53 Promo: A57 A52 A52 ar 0.3 B54 Promo: B57 Promo: A52 A52 ar 0.3 B55 Promo: B57 Promo: A52 A52 br.03 B58 Promo: Differential pair Apound A52 A62 br.04 B48 Differential pair Apound A62 A62 A62 br.05 B62 Promo: Differential pair Apound A62 A62 br.05 B62 Promo: Differential pair A62 A62 A62 br.05 B63 Differential pair A62 A62 A62 A62 br.05 B63 Differential pair Anon Nifferential pair A62 A62 br.05 B63 Differential pair A63 A64 A64 A64 br.05 B63 </td <td></td> <td></td> <td>B51</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>F</td>			B51								F
Pr.32 Ground Later M.3 M.3 M.3 M.3 pr.33 652 957 Ground Differential pain A57 Ground Later Ground Later Ground Later Ground Later Ground Later Ground Later A57 A56 A57 A57 Ground Later A57 A66 A57 A65 A57 A57 A57 A57 A57 A57 A57 A57 A57		· · · · · · · · · · · · · · · · · · ·	Ground Lauer	\neg))	
Pr.03 ES4 Petr Transmitter Lone 10, Ground Differential pain As7 Bround Lagen pr.04 555 PS9 Differential pain Ground As60 As60 pr.04 555 PS9 Differential pain Ground As60 As60 pr.04 559 Proved Proved Proved As60 As60 pr.05 D02 Proved Proved Proved As60 As60 pr.05 D03 PS6 Transmitter Lone 11, Ground As61 As60 pr.05 B03 PC4 Ground Proved As61 As60 pr.05 B03 PC4 Ground Proved As61 As61 pr.05 B03 PC4 Ground Proved As61 As62 pr.05 B04 Proved Proved Proved As61 As62 pr.05 B03 PC4 Differential pain Proved As62 As62 Proved </td <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td> <td></td> <td>Ground</td> <td>Receiver Lane 9,</td> <td></td> <td></td> <td></td> <td></td>		· · · · · · · · · · · · · · · · · · ·				Ground	Receiver Lane 9,				
Pr.03 ESS Feld Transmittaer Lone 10, Dround AFB Pr.04 EC6 Feld Feld Transmittaer Lone 10, Shound AFB Sh1 Ground Layer EC6 Oncurd Receiventione 10, A6C A55 Sh2 Ground Layer EC1 Ground Differential bain A61 Ground A62 pn.05 EC3 EC4 Ground Bround A62 A61 pn.05 EC3 EC4 Ground Bround A62 A61 pn.05 EC3 EC4 Ground Bround A62 A61 pn.05 EC7 EC4 Ground Bround A62 A62 pn.07 F70 EC6 Transmittaer Lone 12, Ground A62 A63 pn.03 Erd Ec6 Ground Bround A64 A63 pn.07 F70 F64 Orderention poin Bround A64 A72 pn.03											
Base Base <th< td=""><td></td><td>· · · · · · · · · · · · · · · · · · ·</td><td>B55</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>F</td></th<>		· · · · · · · · · · · · · · · · · · ·	B55								F
Bit of tagen F61 Pround Differential pain A61 0n105 302 1000 1000 A62 A60 0n105 302 1000 1000 A62 A60 0n105 302 1000 5000 A62 A60 0n106 366 64 Ground Receiver Lane 11, A64 0n106 357 566 Throam itter Lane 12, Chound A65 0n107 371 667 Differential pain Scourd A67 0n107 371 566 Throam itter Lane 12, Scourd A67 0n108 375 566 Throam itter Lane 12, A68 A68 0n105 374 566 Chound Receiver Lane 12, A68 0n109 Chound Lagen 57 Differential pain A70 A72 0n109 Chound Lagen 57 Differential pain Acound A74 0n101 378 B70 Throam itser Lane 13,									_		F
bit 35 B62 Transmitter Lane 11, Ground A02 A60 Lago pr. 05 B63 Differential pain Bround A63 A81 A83 A81 pr. 05 B63 Differential pain Bround A63 A81 A83 A81 pr. 06 B67 B66 Differential pain Bround A66 A84 A81 pr. 07 B70 B67 Differential pain Orbund A66 A84 A81 pr. 07 B70 B67 Differential pain Orbund A66 A84 A81 pr. 07 B70 B67 Differential pain Orbund A67 A85 A84 B67 Differential pain A60 A84 B67 B67 Differential pain A60 A60 A72 A72 A73 A72 A73 A73 A72 A73											F
pr.05E63E63Differential painGroundA63A61pr.06B86E34GrouncReceiver Lane 11,A54A64pr.06E67E35GrouncDifferential painA55A65pr.07E71E36Transmitter Lane 12,GroundA68A68pr.08E74E36Differential painGroundA69A69pr.08E74E36GrouncDifferential painA69A72pr.08E74E37GroundDifferential painA69A72pr.09Ground LayerE72GrouncReceiver Lane 13,A72A72pr.09Ground LayerE73GrouncDifferential painA73A76pr.10E73E73GrouncReceiver Lane 13,A72A76pr.10E74Differential painGroundA71A76A76pr.10E74Differential painGroundA71A76A76pr.10E74Crossitter Lane 14,GroundA72A77pr.11E75Differential painGroundA73Ground Layerpr.11E82E75Differential painGroundA77E77GrouncReceiver Lane 14,A70A81DNDCround LayerE77GrouncDifferential painA73E77GrouncDifferential painA73A77E77GrouncE77GrouncDifferential pain <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>)))</td> <td></td>				_					-)))	
p1.06B06B04GroundReceiven Lone 11,A64A64p1.06B67B05GroundDifferenticlipainA65p1.07B70B66Transmitter Lane 12,GroundA66p1.07B71B67Differential painChoundA67B68Ground LayenB63GroundB69A68p1.08B74B69GroundB69GroundA72p1.08B75B71Differential painChoundA70A72p1.09Ground LayenB71Differential painGroundA70A73p1.08E75B71Differential painGroundA71A76p1.09Ground LayenB72GroundDifferential painA73Ground Layenp1.10E79B73GroundDifferential painA74Ground Layenp1.11E82B73GroundDifferential painA75A30GNDGround LayenB75Differential painGroundA74Ground Layenp1.11E82B78GroundB76Differential painA77A31GNDGround LayenB77GroundDifferential painA77A31GNDB78GroundDifferential painA78A31Ground LayenGNDGNDB78GroundDifferential painA78A31Ground LayenGNDGNDGroundB78GroundB79Ground <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td><td></td><td>F</td></td<>									_		F
prilosB67B65GroundDifferential painA63A65prilorB70B70B66Trensmitter Lone 12,GroundA66A65prilorB71B71B68GroundGroundA67A68GNDGround LayerB68GroundDifferential painA68A72prilorB74B68GroundDifferential painA68A72prilorB74B69GroundDifferential painA68A72prilorGround LayerB71Differential painGroundA70A73prilorGround LayerB71Differential painGroundA71A76prilorB73B74B74Differential painGroundA71A76prilorB73B74B74Differential painGroundA74Ground LayerprilorB73B74B75Differential painGroundA74Ground LayerprilorB79B75Differential painGroundA74Ground LayerprilorB73B75Differential painGroundA75A88prilorGround LayerB77GroundB77A83B78Trensmitter Lone 15,GroundA78Ground LayerB79Differential painGroundA78Ground LayerB78Trensmitter Lone 15,GroundA78Ground LayerB79Differential painGroundA78Ground		· · · · · · · · · · · · · · · · · · ·		_							F
priorBit											F
priorB71B67Differential painGroundA67A69GNDGround LayonP69GroundPedeiver Lone 12,A68Ground Layonprio8B74B69GroundDifferential painA69A72prio9Bround LayenB71Differential painGroundA71A73pri09Ground LayenB72GroundReceiver Lone 13,A72A73pri10B78B73GroundDifferential painGroundA74pri11B81B75Differential painGroundA74Ground Layenpri11B82GroundReceiver Lone 14,GroundA74Ground LayenGNDGround LayenB75Differential painGroundA74Ground Layenground LayenB74Transmitter Lone 14,GroundA74Ground Layenpri11B81B75Differential painGroundA75A80GNDGround LayenB76GroundReceiver Lone 14,A76A81GNDGround LayenB77GroundDifferential painA77A81GNDGround LayenB78Transmitter Lone 15,GroundA78GNDGround LayenB79Differential painGroundA78GNDGroundB79Differential painGroundA78GNDGroundB79Differential painGroundA78GNDGroundB79Differential pain <td></td> <td>F</td>											F
BitBi		· · · · · · · · · · · · · · · · · · ·	B71								F
Pr-08B74B69GroundDifferential pairA69pr-08B75B70Transmitter Lane 13,GroundA70pr-09Ground LayerB71Differential pairGroundA71pr-09Ground LayerB72GroundReceiver Lane 13,A72pr-10B78B73GroundDifferential pairA73pr-11B81B74Transmitter Lane 14,GroundA74B75Differential pairGroundA74B76GroundReceiver Lane 14,A76B77GroundB76GroundA74B76GroundB77GroundDifferential pairA77B76GroundB77GroundDifferential pairA77B77GroundDifferential pairA76A80B78Transmitter Lane 15,GroundA78B79Differential pairGroundA78B79Differential pairGroundA78B79Orderential pairGroundA79B70GroundB79Orderential pairA79			Ground Lauer	\dashv							
prilodBitBitBitBitBitAitprilodBit <td< td=""><td></td><td></td><td></td><td>\neg</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>				\neg							
pr_09Ground LayerB71Differential pairGroundA71pr_09Ground LayerB72GroundReceiver Lane 13,A72pr_10B78B73GroundDifferential pairA73pr_10B79B74Transmitter Lane 14,GroundA74pr_11B81B75Differential pairGroundA76ground LayerB76GroundReceiver Lane 14,A76B77GroundB77GroundA77B78Transmitter Lane 15,GroundA77B79Differential pairGroundA77B70GroundDifferential pairA77B70GroundA78GroundB70GroundGroundA78B70Differential pairGroundA78B70GroundGroundA78B70Differential pairGroundA79B70GroundGroundA79B70GroundGroundA79B70GroundGroundA79B70GroundGroundA79B70GroundGroundA79B71B70GroundGroundA79B72Differential pairGroundA79B73GroundGroundA79B74GroundGroundA79B75GroundGroundA79B74GroundGroundA79B75GroundGroundA79 <t< td=""><td></td><td></td><td></td><td></td><td>B70</td><td>Transmitter Lane 13,</td><td></td><td></td><td></td><td></td><td></td></t<>					B70	Transmitter Lane 13,					
pr_09Ground LayerB72GroundReceiver Lane 13,A72pr_10B78B73GroundDifferential pairA73pr_10B79B74Transmitter Lane 14,GroundA74pr_11B81B75Differential pairGroundA76pr_11B82B76GroundDifferential pairA76GNDGround LayerB76GroundDifferential pairA77B78Transmitter Lane 15,GroundA78B79Differential pairGroundA79CCTRONICS MATERIALS SOLUTIONS DIVISIONB80GroundB80Ground						Differential pair					
pr_10B78B73GroundDifferential pairA73pr_10B79B74Transmitter Lane 14,GroundA74pr_11B81B75Differential pairGroundA75pr_11B82B76GroundReceiver Lane 14,A76GNDGround LayerB77GroundDifferential pairA77B78Transmitter Lane 15,GroundA78CTRONICS MATERIALS SOLUTIONS DIVISIONB70GroundB70			<u>U</u>						/		F
pr_10B79A74pr_11B81pr_11B82GNDGround LayerB74Transmitter Lane 14,GroundB75Differential pairGroundB76GroundReceiver Lane 14,A76B77GroundDifferential pairA77B78Transmitter Lane 15,GroundA78B79Differential pairGroundA79B79Differential pairGroundA80B70GroundB79B79B74Transmitter Lane 15,GroundA79)))								F
pr_11 B82 B76 Ground Receiver Lane 14, A76 A81 GND Ground Layer B77 Ground Differential pair A77 B78 Transmitter Lane 15, Ground A78 B79 Differential pair Ground A79 CTRONICS MATERIALS SOLUTIONS DIVISION B80 Ground Bare iven Lane 15, A80		· · · · · · · · · · · · · · · · · · ·	B79								F
prime GNDB77GroundDifferential pairA77B78Transmitter Lane 15,GroundA78B79Differential pairGroundA79CTRONICS MATERIALS SOLUTIONS DIVISIONB80GroundB80		'							_		F
B78 Transmitter Lane 15, Ground A78 B79 Differential pair Ground A79 CTRONICS MATERIALS SOLUTIONS DIVISION B80 Ground B80									/ /		F
ECTRONICS MATERIALS SOLUTIONS DIVISION B79 Differential pair Ground A79		GND	Ground Layer						-	Ground Layer	(
CTRONICS MATERIALS SOLUTIONS DIVISION				Ň					\neg		
				ON					-		
ERCUNNELT SULUTIONS											
B82 Hot Plug Detect Ground A82	רי∍לאאאיל	mconnec	UOR'S.COM								

7

6

5

4

З

ן נ			D	84237	APR 23	,2019	LDS	TS
					REVISED F	PART LABEL		
				77002	DEC 14	AD	LS	
					PIN DEFIN Was A33, SH2; ADDE Warranty	ED SH3		
			В	48418	JUN 19	,2013	LDS	TS
					ADDED SIE Indicatof	DE A & SIDE B RS		
			Α	46893	MAR 27	,2013	LDS	TS
					WORK REQL	JEST 11618		
					INITIAL F	RELEASE		
Г		ASSEMBLY	REV	ECO		D DESCRIPTION	DRFT	CHKD
	ACCESS CODES		DRFT	CHMIDT	MAR 27,2013	MFG	DATE	
			СНКД		DATE	T SUNIGA	MAR 28	8,2013
-	$\begin{array}{c c} DO & NOT & SCALE \\ SCALE & \underline{1} \\ DDAWLING & \underline{1} \end{array}$	TOLERANCES EXCEPT AS NOTED	3	st.	Center This document Paul, 3M property an distributed wi	3M COPYRIGHT 2019 and the information it of d may not be reproduced thout 3M permission, or r than for 3M authorized erved.	or furthe	er
	DRAWING 1	INCHES .0 ± .00 ± .00 ± .000 ±		KC5		KXXX, C E PCIE		_E
	INTERPRET PER ASME Y14.5 - 2009	MILLIMETERS 0 ± 1		TC	MALE	PCIE X	16	
125 / ALL SURFACES .000 ±.005			CA NUM MODE	BER D)-2586-	5	REV.
	V 🛛 MARKED ONLY	ANGLES ±1 °	IVIUUE			ISTS 🗆 YES 🛛 NO S	HT 2 (OF 3
	2					1		

 \square

8

 \square

 \square

В

A

Regulatory: For regulatory information about this product, visit 3M.com/regs or contact your 3M representative.

5

Technical Information: The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use: Many factors beyond 3M's control and uniquely within user's control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

Warranty, Limited Remedy, and Disclaimer: Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OR TRADE. If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability: Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

6801 River Place Blvd. Austin, TX 78726-9000 1-800-225-5373 www.3M.com/interconnect

6

3M ELECTRONICS MATERIALS SOLUTIONS DIVISION INTERCONNECT SOLUTIONS http://www.3mconnectors.com

3M IS A TRADEMARK OF 3M COMPANY. FOR TECHNICAL, SALES OR ORDERING INFORMATION CÁLL 800-225-5373

6

3M Electronics Materials Solutions Division

З

	С	77002	-	DEC 14	,2017	AD	LS	
				PIN DEFINITION A50 Was A33, Zone B4, SH2; Added SH3 Warranty Info				
		В	48418	}	JUN 19	,2013	LDS	TS
					ADDED SIC Indicator	DE A & SIDE B RS		
		Α	46893	}	MAR 27	,2013	LDS	TS
					WORK REQL	JEST 11618		
					INITIAL F	RELEASE		
	ASSEMBLY	REV	ECO	I	SSUE DATE AN	D DESCRIPTION	DRFT	CHKD
ACCESS CODES		L S	CHMIDT		MAR 27,2013	MFG	DATE	
		СНКД			DATE	APPVL T SUNIGA	MAR 28	,2013
DIVISION DO NOT SCALE SCALE <u>1</u> DAWLING <u>1</u>	DIVISION CODE TOLERANCES EXCEPT AS NOTED	3		3M Center St. Paul, MN 55144	This document 3M property an	M COPYRIGHT 2019 and the information it of d may not be reproduced thout 3M permission, or r than for 3M authorized erved.	or furthe	ər
DRAWING 1 THIRD ANGLE PROJECTION	INCHES .0 ± .00 ± .00 ± .000 ±		KC5	5Y,	MALE		ABL X16	_E 5
INTERPRET PER ASME Y14.5 - 2009	MILLIMETERS 0 ± 1 .0 ± .5	СА				PCIE X.	16	REV.
MAX SURFACE ROUGHNESS	.00 ±.05 .000 ±.005	NUM		78)-2586-	5	\square
MARKED ONLY	ANGLES ±1 °	MODE	EL			et. Ists □yes⊠no S	HT 3 (OF 3
		-			I			

D 84237

Q

LDS TS

APR 23,2019 REVISED PART LABEL

2