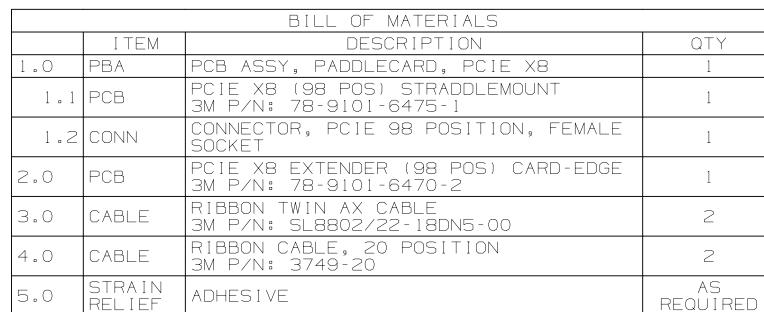
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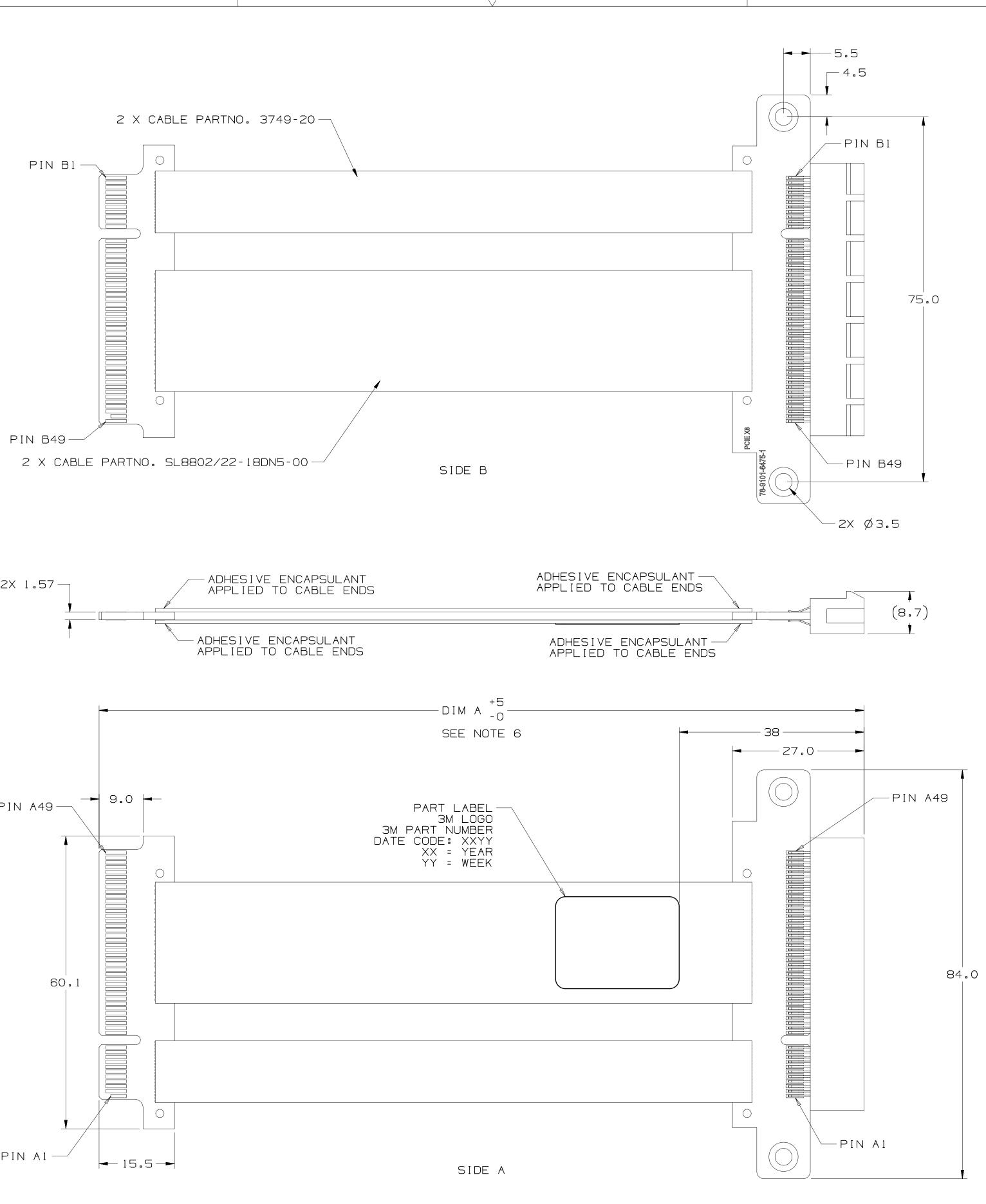
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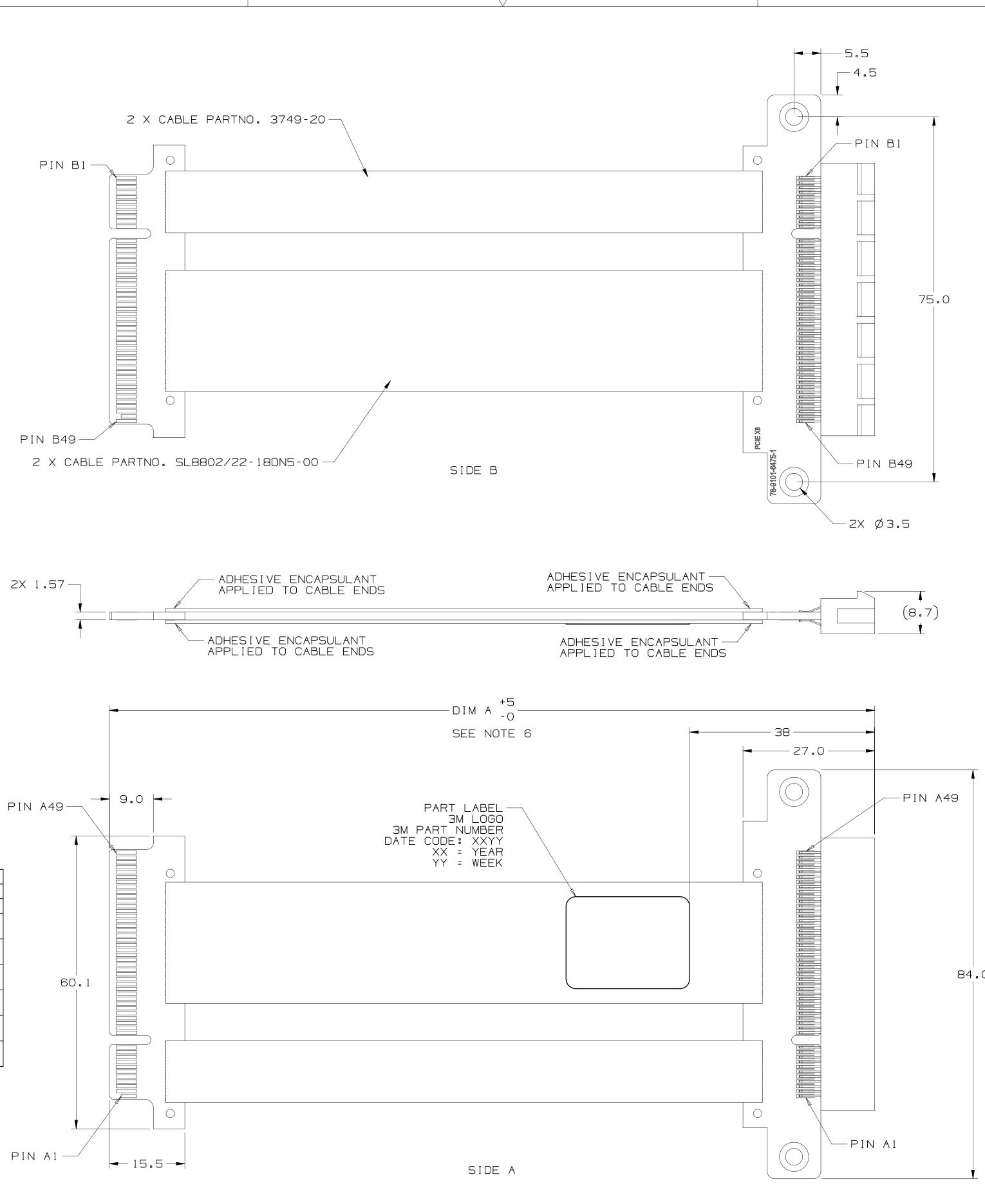
3M IS A TRADEMARK OF 3M COMPANY.

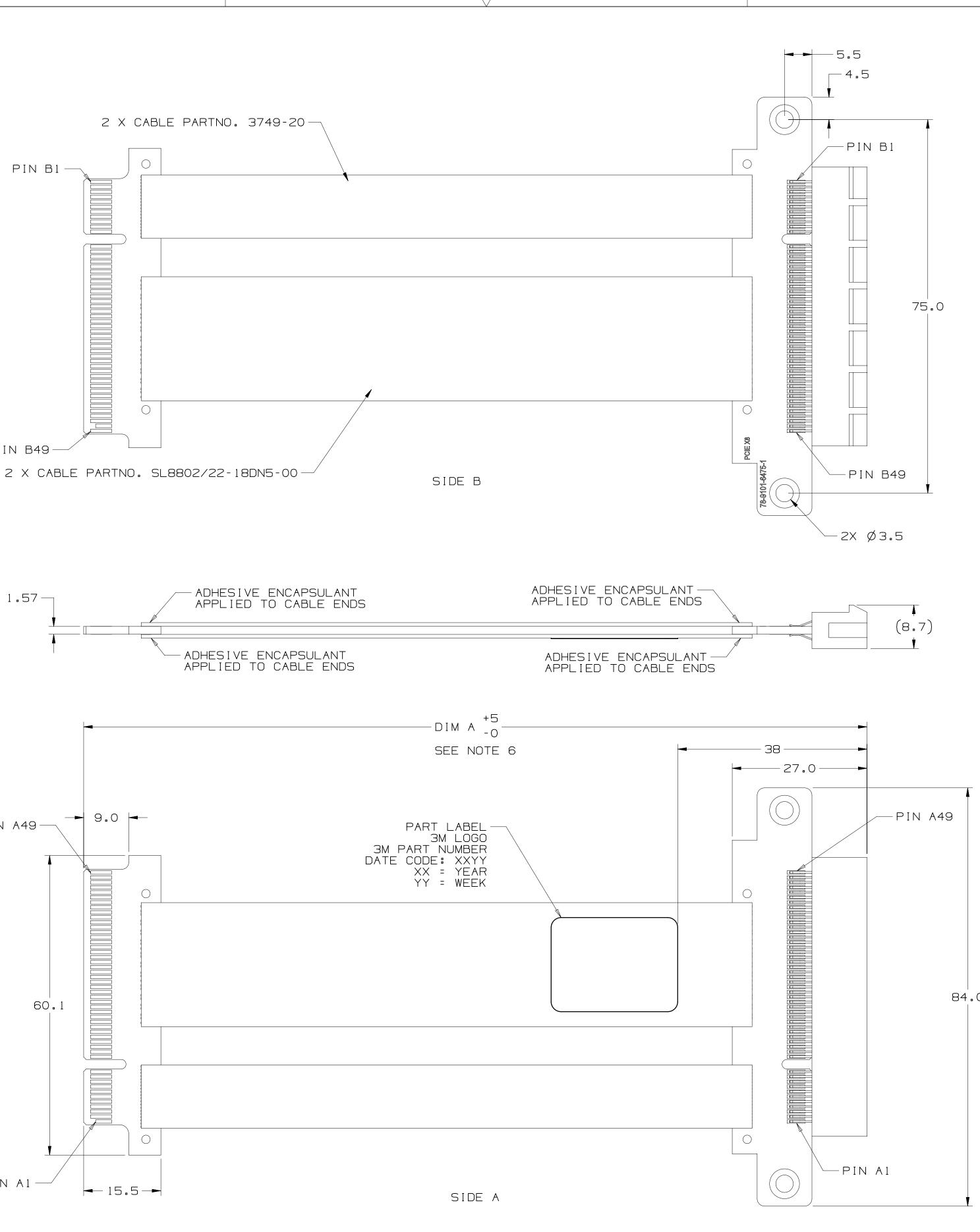
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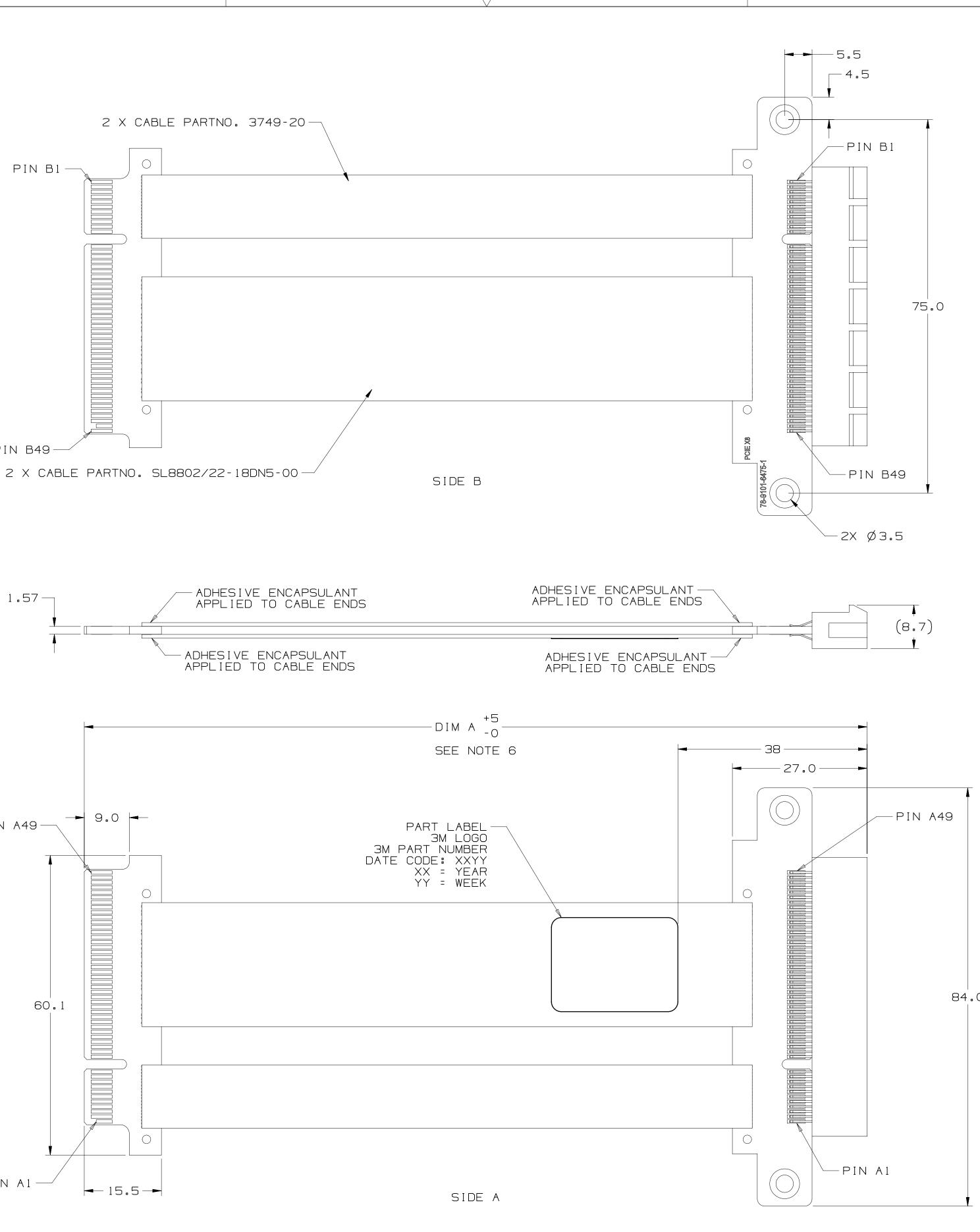
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3M™ TWIN AXIAL CABLE ASSEMBLY For PCI⊖ X8 EXTENDER CARD APPLICATIONS

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	1	NOTES	
1		MENSIONS ARE IN MILLIMETERS.	
2	ЗО 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 V.3MCONNECTORS.COM & C1 APPLY)	
4	HAS EXF SHC EDC THE INS AT NEE	IS CABLE CONSTRUCTION A THIN ALUMINUM INNER LAYER POSED AT EACH EDGE. USERS OULD ASSESS WHETHER THE EXPOSED BE PRESENTS A SHORTING RISK IN EIR SPECIFIC APPLICATION. SULATING TAPE MAY BE APPLIED THE CABLE ASSEMBLY LEVEL, AS EDED, TO COVER THE EXPOSED BE IN RISK AREAS.	
5	PRC TWI	PLICABLE SPECIFICATIONS: DDUCT SPECIFICATION NUMBER: IN AX CABLE: PS-0106 BLE ASSEMBLY: PS-0137	
6		DER BY APPLICABLE 3M PART NUMBER: H2-0723-XXXX	
	XXX	(X = DIM 'A' IN MILLIMETERS (1000 = 1 METER)	
	8KF	ANDARD LENGTH (DIM 'A') 12-0723-0250 (250 MM) 12-0723-0500 (500 MM)	
		N-STANDARD LENGTHS AVAILABLE ON SPECIAL REQUEST. MAY REQUIRE GHER MOQS AND LONGER LEAD TIMES. O MM MINIMUM LENGTH.	$\square$
7	TW 1 PCE	AMMABILITY RATING: IN AX CABLE: UL94 HB 3S: UL94V-0 HESIVE STRAIN RELIEF: UL94 HB, 3V)	
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.	

		E	84237	APR 23	.2019	LDS	TS
					ART LABEL		
		D	77066	DEC 20,2017		AD	LS
				ZONE A8; Warranty Added not	AND NOTES SH1, ADDED SH3, INFO NOTES; E TO CLARIFY SH2, ZONE AS		
		С	42467	AUG 06		LDS	TS
				REVISED N			
		В	40306	JUN 18	,2012	LDS	TS
				REVISED V	ON; REVISED		
		А		MAR OS	,2012	ARM	TS
	ASSEMBLY	REV	ECO		D DESCRIPTION	DRFT	CHKD
ACCESS CODES			CHMIDT	MAR 08,2012	MFG	DATE	
			UNIGA	APR 23,2019	APPVL	DATE	
DO NOT SCALE SCALE <u>2</u> DRAWING 1	TOLERANCES EXCEPT AS NOTED INCHES .0 .00 .00 ±		St. MN	Center Paul, 55144 This document 3M property and distributed wi All rights res - 0723 - >	3M COPYRIGHT 2019 and the information it of d may not be reproduced thout 3M permission, or r than for 3M authorized erved.	or furth used or d purpose	er
THIRD ANGLE PROJECTION INTERPRET PER ASME Y14.5 - 2009	0000 ± MILLIMETERS 0 ± 1 .0 ± .5			X8 EX	FENDER		
MAX SURFACE ROUGHNESS	.00 ±.05 .000 ±.005 ANGLES ±1°	CA NUM MODE		DRAWING NO. 78-510(	) - 2511 - et. ists □ yes ⊠ no   S	<u>З</u> інт 1	OF 3

78-51 DRAWING NU

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	3M 3749-20 Cable							3M 3749-20 Cat	
Wire #	Pin Attachment #							Pin Attachment #	Wire
D 1	Ground Layer							Ground Layer	01
02	B01 - B02							AO 1	02
D3	B01 - B02		r			·		Ground Layer	03
04	B01 - B02			PCI-Express				E0A - 20A	04
05	B01 - B02		Pin #	Side B Description	Side A Description	n Pin #		EOA - 20A	05
)6	B01 - B02		BO1	+12 volt power	Hot plug presence	AO 1		A02 - A03	06
)7	B01 - B02	$\neg$			detect			A02 - A03	07
)8	Ground Layer	_	BO2	+12 volt power	+12 volt power	A02		Ground Layer	08
)9	B05		B03	+12 volt power	+12 volt power	EOA		A05	09
10	B06		B04	Ground	Ground	A04		A06	10
1 0			B05	SMBus clock	ТСК	A05		A07	
	Ground Layer		B06	SMBus data	TDI	A06			
12	B08		B07	Ground	TDO	A07		A08	12
13	B08	_	<b>B</b> 08	+3.3 volt power	TMS	A08		Ground Layer	13
14	B09		B09	+TRST#	+3.3 volt power	A09		A09 - A10	14
15	B10		► B10	3.3v volt power	+3.3 volt power	A10		A09 - A10	15
16	B10		B11	Link Reactivation	Power Good	A 1 1		A09 - A10	16
17	Ground Layer							A09 - A10	17
18	B11			Mechani				Ground Layer	18
19	Ground Layer		► B12	Reserved	Ground	A12		Ground Layer	19
20	B12		B13	Ground	Reference Clock	A13		A 1 1	20
			B14	Transmitter Lane 0,	Differential pair	A 1 4			, <b>I</b>
		<b>一</b> /	B15	Differential pair	Ground	A15			
	3M SL8802 Cable		B16	Ground	Receiver Lane 0,	A16		3M SL8802 Cab	
Wire #			B17	Hotplug detect	Differential pair	A17		Pin Attachment #	Wir
GND	Ground Layer		B18	Ground	Ground	A18		Ground Layer	GND
or_01	B14		B19	Transmitter Lane 1,	Reserved	A19		A13	pr_(
or_01	B15		<b>B</b> 20	Differential pair	Ground	A20		A 1 4	pr_(
or_02	B17		B21	Ground	Receiver Lane 1,	A21		A16	pr_(
or_02	Ground Layer		B22	Ground	Differential pair	A22		A17	pr_(
or_03	B19	$\neg$	B23	Transmitter Lane 2,	Ground	A23		Ground Layer	 pr(
or_03	B20		B24	Differential pair	Ground	A24		A19	pr_(
or_04	B23		B25	Ground	Receiver Lane 2,	A25		A21	pr_(
or_04	B24		B26		· · · · · · · · · · · · · · · · · · ·			A22	pr_(
GND	Ground Layer			Ground	Differential pair	A26		Ground Layer	GND
or_05	B27		B27	Transmitter Lane 3,	Ground	A27			
			B28	Differential pair	Ground	A28		A25	pr_(
or_05	B28		B29	Ground	Receiver Lane 3,	A29		A26	pr_(
or_06	B30		B30	Reserved	Differential pair	A30		A29	pr_(
or_06	B31		B31	Hot plug detect	Ground	A31		0EA	pr_(
or_07	B33		B32	Ground	Reserved	A32		A32	pr_(
or_07	B34		B33	Transmitter Lane 4,	Reserved	A33		A33	pr_(
GND	Ground Layer		B34	Differential pair	Ground	A34		Ground Layer	GND
or_08	B37		B35	Ground	Receiver Lane 4,	A35		A35	pr_(
or_08	B38		B36	Ground	Differential pair	A36		A36	pr_(
or_09	B41	$\neg$	B37	Transmitter Lane 5,	Ground	A37		A39	pr_(
or_09	B42		B38	Differential pair	Ground	A38		A40	pr_(
or_10	B45	$\neg$	B39	Ground	Receiver Lane 5,	A39		A43	pr_
pr_10	B46		B33 B40	Ground	Differential pair	A40	/	A44	pr_
pr_11	B48	$\neg$ $\land$	B41	Transmitter Lane 6,	Ground	A41		A47	Pr
or_11	Ground Layer	$\dashv$ $\backslash$ $)$					/	A48	Pr
GND	Ground Layer	$\neg$	B42	Differential pair	Ground	A42			
			B43	Ground	Receiver Lane 6,	A43		Ground Layer	GND
			B44	Ground	Differential pair	A44			
			B45	Transmitter Lane 7,	Ground	A45			
			B46	Differential pair	Ground	A46			
			B47	Ground	Receiver Lane 7,	A47			
			B48	Hot plug detect	Differential pair	A48			
			B49	Ground	Ground	A49			

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THIS IS A FEED THROUGH ASSEMBLY. THE PIN ASSIGNMENTS REMAIN THE SAME ON BOTH ENDS.

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		А			MAR 08	,2012	ARM	TS
	ASSEMBLY	REV	ECO			DESCRIPTION	DRFT	СНКД
ACCESS CODES		DRFT	CHMIDT	L N	ATE 1AR 08,2012	MFG	DATE	
			JNIGA	Ē	ATE VPR 23,2019	APPVL	DATE	
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SCALE <u>1</u> Drawing 1	NOTED	TITLE			All rights rese	rved.		
	8	KH2			XXXX, C			
THIRD ANGLE PROJECTION	.000 ±	Л		-		X8 BY	ΓU	
INTERPRET PER ASME Y14.5 - 2009	MILLIMETERS 0 ± 1			Xξ	3 FX I	ENDER		
MAX SURFACE ROUGHNESS	.0 ±.5 .00 ±.05 .000 ±.005		BER D	78		)-2511-	Э	REV.
	ANGLES ±1 °	MOD	EL		DE	T. STS □YES⊠NO S	HT 2	OF 3
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E 84237

D 77066

APR 23,2019

DEC 20,2017

REVISED PART LABEL

ADDED URL AND TRADEMARK NOTES SH1, ZONE A8; ADDED SH3, WARRANTY INFO NOTES; ADDED NOTE TO CLARIFY PINOUTS, SH2, ZONE A5

REV m 2511 78-51 DRAWING NU

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	С	42467	AUG 06,2012	LDS	TS		
			REVISED NOTE 6				
	В	40306	JUN 18,2012	LDS	TS		
			REVISED X8 PCB SHAP REVISED VIEW ORIENTATION; REVISE NOTE ORIENTATION				
	A	N	MAR 08,2012	ARM	TS		
	SSEMBLY RE'		ISSUE DATE AND DESCRIPTION	DRFT	СНКД		
ACCESS CODES		SCHMIDT	MAR 08,2012	DATE			
	Снк	SUNIGA	APR 23,2019	DATE			
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DRAWING 1	~~ <u>/- \</u>	3KH2	-0723-XXXX,				
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ASME Y14.5 - 2009 (	MILLIMETERS		X8 EXTENDEF	7			
	00 ±.05 NL 000 ±.005	JMBER D	drawing no. 78-5100-2511	- 3	REV.		
	NGLES ±1 °	DEL	DET. Lists 🗆 yes 🛛 No	SHT 3	OF 3		
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E 84237

D 77066

APR 23,2019

ADDED URL AND

REVISED PART LABEL DEC 20,2017

ADDED ORL AND TRADEMARK NOTES SH1, Zone A8; Added SH3, Warranty Info Notes; Added Note to clarify PINOUTS, SH2, Zone A5

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