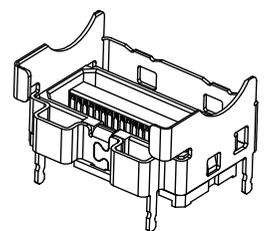
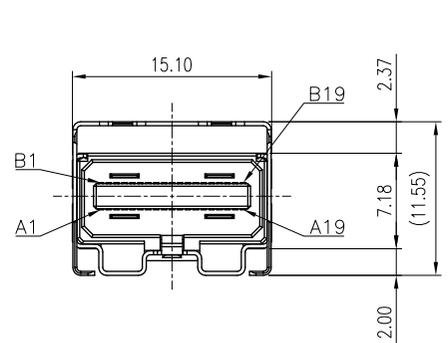


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REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	BY
AX12	N/A	CHANGED THE SHELL TH. POSITION	2020.03.13	IH. LEE
AX13	N/A	CHANGED THE SHELL SHAPE	2020.03.28	JOAN LU
AX14	N/A	CHANGED THE SHELL TH. POSITION	2020.04.11	JOAN LU
AX15	N/A	CHANGED THE SHELL TH. POSITION	2020.05.13	JOAN LU



PART NUMBER:
 G99 X X X X X X HR

SWIFT CONNECTOR

CONNECTOR SPEED
 1: PCIE GEN5(85ohm)

PIN QTY/CHANNEL
 1: 38P/ (6X)(NOT TOOL YET)
 2: 74P/ (12X)
 4: 124P/ (20X)
 6: 148P/ (24X)(NOT TOOL YET)
 A: 38P/ (4X+SIDEBAND)(NOT TOOL YET)
 B: 74P/ (8X+SIDEBAND)
 C: 124P/ (16X+SIDEBAND)
 F: 148P/ (20X+SIDEBAND)(NOT TOOL YET)

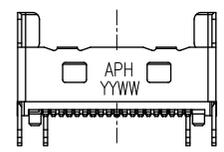
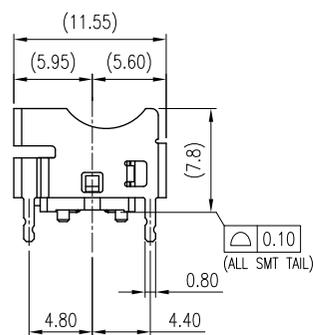
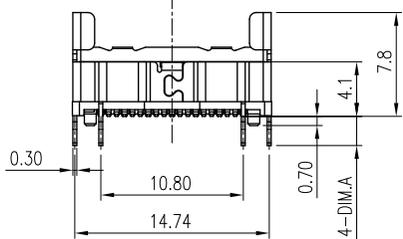
COMPLIANT CODE
 HR: HALOGEN-FREE & RoHS

VARIATION CODE
 BLANK: STANDARD

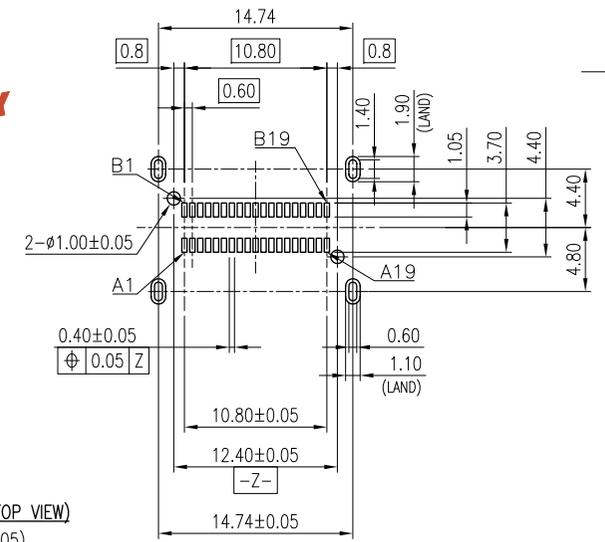
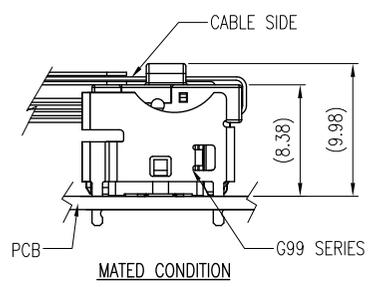
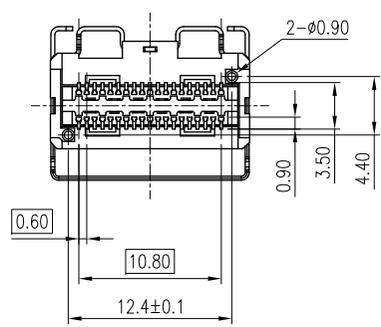
PACKING CODE
 2: TAPE AND REEL

SHELL PIN LENGTH OPTIONS(DIM.A)
 1: 1.50mm
 2: 2.20mm
 3: 3.00mm
 5: 1.20mm

CONTACT FINISH
 2: 15μ" GOLD
 3: 30μ" GOLD



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- NOTES:
- HOUSING: HIGH TEMPERATURE THERMOPLASTIC, UL 94V-0, COLOR BLACK
 - TERMINAL: COPPER ALLOY, SELECTED GOLD PLATING ON CONTACT AREA, GOLD FLASH PLATING ON SOLDERING TAIL, 50μ" MIN. NICKEL UNDER-PLATING OVERALL
 - METAL SHELL: STAINLESS STEEL, 50μ" MIN. ELECTROLESS NICKEL PLATING OVERALL
 - PRODUCT SPECIFICATION REFERS TO PS-7772
 - THIS PRODUCT DOESN'T CONTAIN ENVIRONMENTAL HAZARDOUS MATERIALS PER DIRECTIVE 2011/65/EC FOR RoHS AND PER IEC 61249-2-21 FOR HALOGEN FREE COMPLIANT.

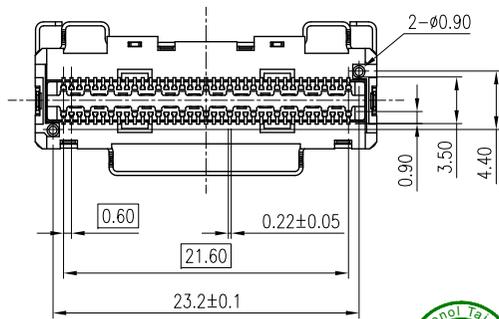
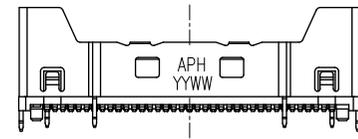
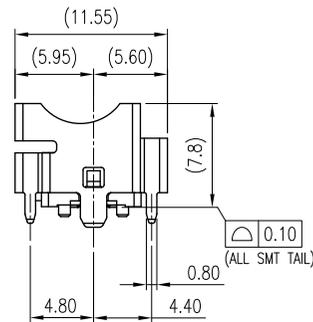
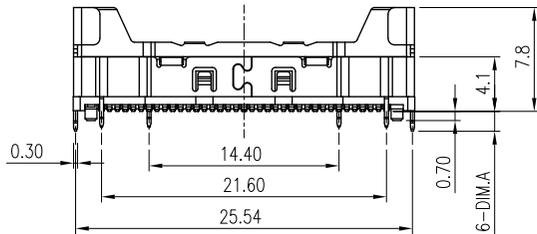
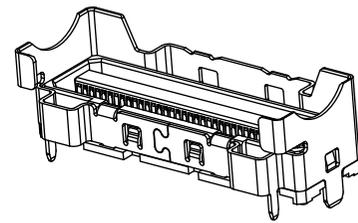
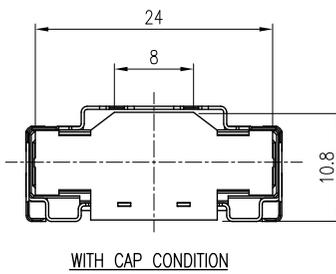
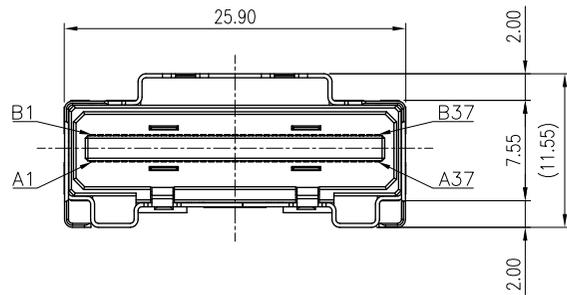
RECOMMENDED PCB LAYOUT (TOP VIEW)
 (GENERAL TOLERANCE: ±0.05)

TOLERANCE	DRAWN	APPROVALS	DATE	TITLE	Amphenol®			
X. X.X X.XX X.XXX	±0.30 ±0.20 ±0.10	DESIGNED Joan Lu	05/13/2020	SWIFT CONNECTOR VERTICAL, 38POS. SMT TYPE	Amphenol Corporation Amphenol Taiwan Corporation			
		CHECKED Sondra Sang	05/13/2020					
ANGULAR	±2°	APPROVED Hank Hsu	05/13/2020		UNIT mm	SIZE A3	PART No. G99 X X X X X X HR	
UNLESS OTHERWISE SPECIFIED	DWG TYPE CUST DWG	PROJECT CODE 1673			SCALE NA	SHEET 1 OF 7	DWG No. G99XXXXXXHR REV. AX15	

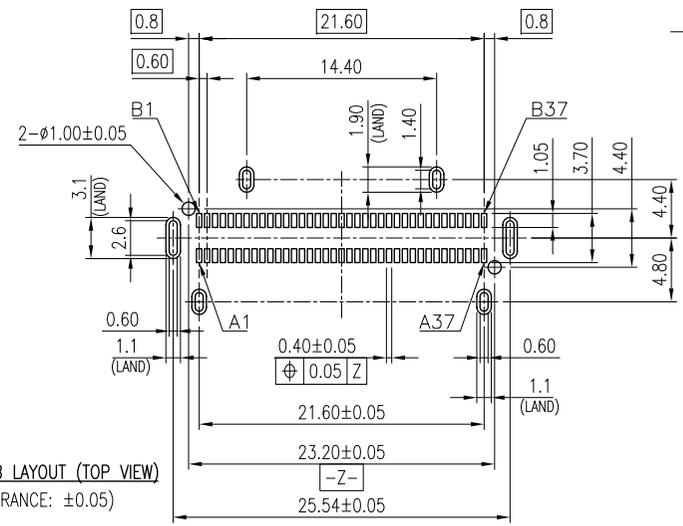
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REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	BY
AX12	N/A	CHANGED THE SHELL TH. POSITION	2020.03.13	IH. LEE
AX13	N/A	CHANGED THE SHELL SHAPE	2020.03.28	JOAN LU
AX14	N/A	CHANGED THE SHELL TH. POSITION	2020.04.11	JOAN LU
AX15	N/A	CHANGED THE SHELL TH. POSITION	2020.05.13	JOAN LU



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RECOMMENDED PCB LAYOUT (TOP VIEW)
(GENERAL TOLERANCE: ±0.05)

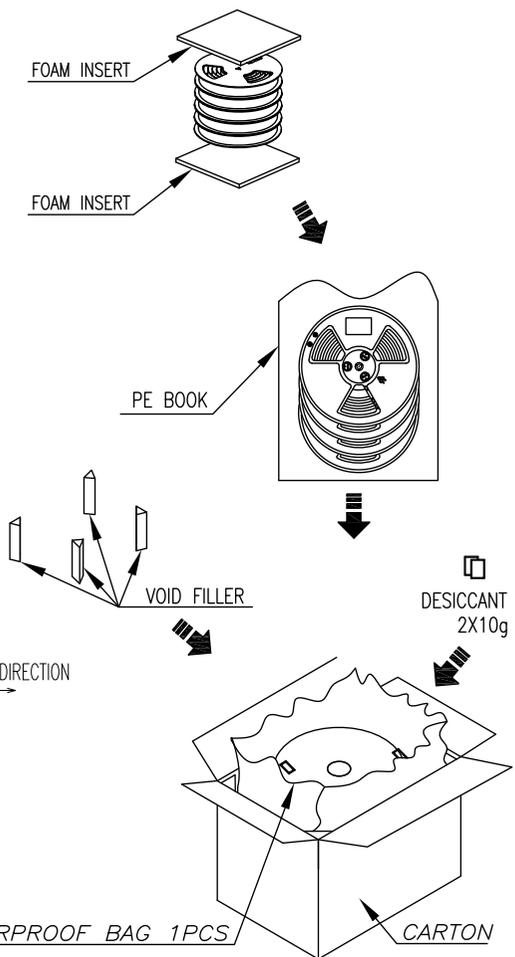
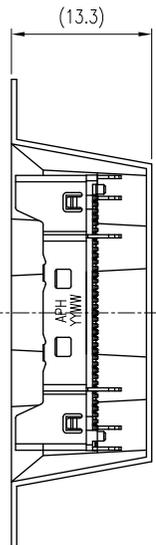
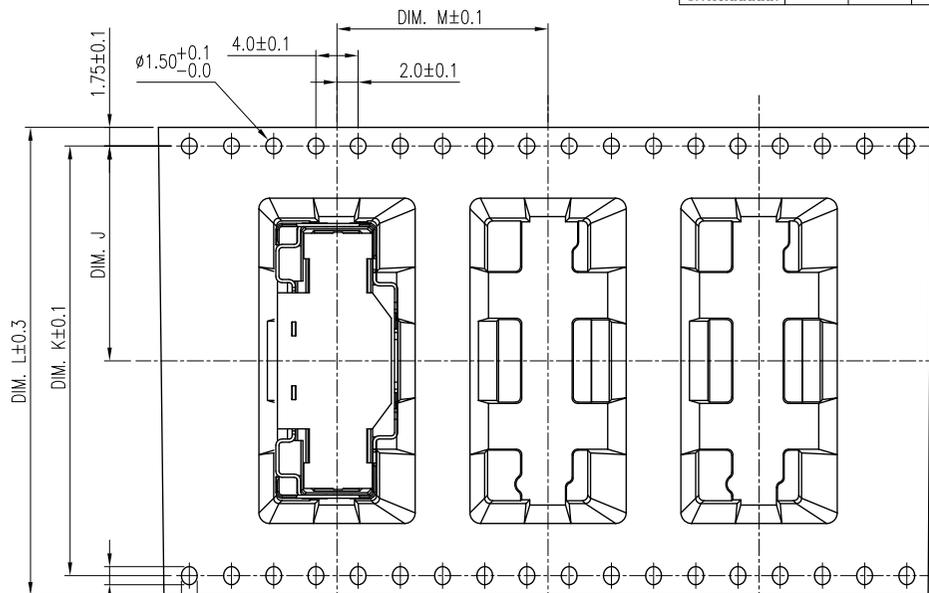


TOLERANCE	DRAWN	APPROVALS	DATE	TITLE	Amphenol®					
X. X.X ±0.30 X.XX ±0.20 X.XXX ±0.10	DESIGNED	Joan Lu	05/13/2020	SWIFT CONNECTOR VERTICAL, 74POS. SMT TYPE	Amphenol Corporation Amphenol Taiwan Corporation					
	CHECKED	Sondra Sang	05/13/2020							
ANGULAR ±2°	APPROVED	Hank Hsu	05/13/2020		UNIT	mm	SIZE	A3	PART No.	G99 X X X X X X HR
UNLESS OTHERWISE SPECIFIED	DWG TYPE	CUST DWG	PROJECT CODE 1673			SCALE	NA	SHEET	2 OF 7	DWG No.
									REV	AX15

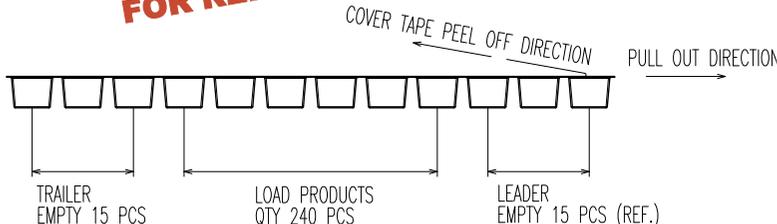
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PART NUMBER	POS. (N)	DIM. J	DIM. K	DIM. L	DIM. M	PCS/REEL	REEL/CARTON (QTY)	CARTON (PCS)
G99X2XXXXHR G99XBXXXXHR	74	20.2±0.15	40.4	44	20	240	6	1440
G99X4XXXXHR G99XCXXXXHR	124	34.2±0.30	68.4	72	20	240	4	960

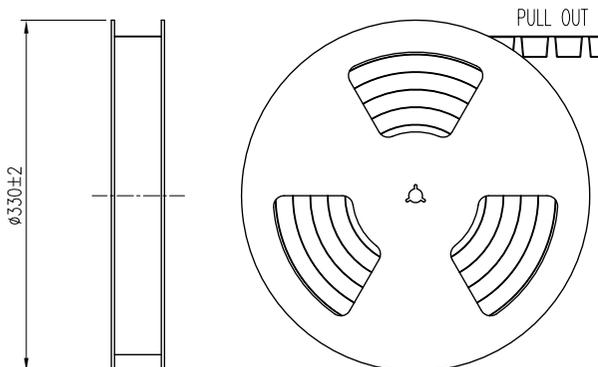
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AX14	N/A	CHANGED THE SHELL TH. POSITION	2020.04.11	JOAN LU
AX15	N/A	CHANGED THE SHELL TH. POSITION	2020.05.13	JOAN LU



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NOTE 2:
 1. CARTON SIZE 350L X 350W X 325H
 2. PREFER TO AMTA LABELING STANDARD.
 3. CARTON CLOSURES MUST BE SEALS WITH TAPE.



NOTE 1 :
 1.MATERIAL:
 CARRIER TAPE: POLYSTYRENE, BLACK
 COVER TAPE: TRANSPARENT POLYSTYRENE
 REEL: POLYSTYRENE, BLACK
 2.ALL TAPE AND REEL SPECIFICATION FOLLOW EIA-481 STANDARD.
 3.THIS PRODUCT DOESN'T CONTAIN ENVIRONMENTAL HAZRDOUS PER DIRECTIVE 2002/95/EC FOR RoHS.

TOLERANCE	DRAWN	APPROVALS	DATE	TITLE	Amphenol® Amphenol Corporation Amphenol Taiwan Corporation			
X. X.X ±0.30 X.XX ±0.20 X.XXX ±0.10	DESIGNED	Joan Lu	05/13/2020	SWIFT CONNECTOR VERTICAL, SMT TYPE	UNIT mm SCALE NA	SIZE A3 SHEET 4 OF 7	PART No.	G99 X X X X X X HR
ANGULAR ±2°	CHECKED	Sondra Sang	05/13/2020				DWG No.	G99XXXXXXHR
UNLESS OTHERWISE SPECIFIED	DWG TYPE	CUST DWG	PROJECT CODE 1673					

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REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	BY
AX12	N/A	CHANGED THE SHELL TH. POSITION	2020.03.13	IH. LEE
AX13	N/A	CHANGED THE SHELL SHAPE	2020.03.28	JOAN LU
AX14	N/A	CHANGED THE SHELL TH. POSITION	2020.04.11	JOAN LU
AX15	N/A	CHANGED THE SHELL TH. POSITION	2020.05.13	JOAN LU

38P SWIFT PIN ASSIGNMENT				74P SWIFT PIN ASSIGNMENT											
X4+10Sideband Solution pin assignment				x6 Solution pin assignment				X8+20Sideband Solution pin assignment				x12 Solution pin assignment			
PIN Number	Pin definition	PIN Number	Pin definition	PIN Number	Pin definition	PIN Number	Pin definition	PIN Number	Pin definition	PIN Number	Pin definition	PIN Number	Pin definition		
B1	GND	A1	GND	B1	GND	A1	GND	B1	GND	A1	GND	B1	GND		
B2	TX	A2	RX	B2	TX	A2	RX	B2	TX	A2	RX	B2	TX		
B3	TX	A3	RX	B3	TX	A3	RX	B3	TX	A3	RX	B3	TX		
B4	GND	A4	GND	B4	GND	A4	GND	B4	GND	A4	GND	B4	GND		
B5	TX	A5	RX	B5	TX	A5	RX	B5	TX	A5	RX	B5	TX		
B6	TX	A6	RX	B6	TX	A6	RX	B6	TX	A6	RX	B6	TX		
B7	GND	A7	GND	B7	GND	A7	GND	B7	GND	A7	GND	B7	GND		
B8	Sideband	A8	Sideband	B8	TX	A8	RX	B8	Sideband	A8	Sideband	B8	TX		
B9	Sideband	A9	Sideband	B9	TX	A9	RX	B9	Sideband	A9	Sideband	B9	TX		
B10	Sideband	A10	Sideband	B10	GND	A10	GND	B10	Sideband	A10	Sideband	B10	GND		
B11	Sideband	A11	Sideband	B11	TX	A11	RX	B11	Sideband	A11	Sideband	B11	TX		
B12	Sideband	A12	Sideband	B12	TX	A12	RX	B12	Sideband	A12	Sideband	B12	TX		
B13	GND	A13	GND	B13	GND	A13	GND	B13	GND	A13	GND	B13	GND		
B14	TX	A14	RX	B14	TX	A14	RX	B14	TX	A14	RX	B14	TX		
B15	TX	A15	RX	B15	TX	A15	RX	B15	TX	A15	RX	B15	TX		
B16	GND	A16	GND	B16	GND	A16	GND	B16	GND	A16	GND	B16	GND		
B17	TX	A17	RX	B17	TX	A17	RX	B17	TX	A17	RX	B17	TX		
B18	TX	A18	RX	B18	TX	A18	RX	B18	TX	A18	RX	B18	TX		
B19	GND	A19	GND	B19	GND	A19	GND	B19	GND	A19	GND	B19	GND		
				B20	TX	A20	RX	B20	TX	A20	RX	B20	TX		
				B21	TX	A21	RX	B21	TX	A21	RX	B21	TX		
				B22	GND	A22	GND	B22	GND	A22	GND	B22	GND		
				B23	TX	A23	RX	B23	TX	A23	RX	B23	TX		
				B24	TX	A24	RX	B24	TX	A24	RX	B24	TX		
				B25	GND	A25	GND	B25	GND	A25	GND	B25	GND		
				B26	Sideband	A26	Sideband	B26	TX	A26	RX	B26	TX		
				B27	Sideband	A27	Sideband	B27	TX	A27	RX	B27	TX		
				B28	Sideband	A28	Sideband	B28	GND	A28	GND	B28	GND		
				B29	Sideband	A29	Sideband	B29	TX	A29	RX	B29	TX		
				B30	Sideband	A30	Sideband	B30	TX	A30	RX	B30	TX		
				B31	GND	A31	GND	B31	GND	A31	GND	B31	GND		
				B32	TX	A32	RX	B32	TX	A32	RX	B32	TX		
				B33	TX	A33	RX	B33	TX	A33	RX	B33	TX		
				B34	GND	A34	GND	B34	GND	A34	GND	B34	GND		
				B35	TX	A35	RX	B35	TX	A35	RX	B35	TX		
				B36	TX	A36	RX	B36	TX	A36	RX	B36	TX		
				B37	GND	A37	GND	B37	GND	A37	GND	B37	GND		



FOR REFERENCE ONLY

TOLERANCE X. ±0.30 X.X ±0.20 X.XX ±0.10 X.XXX ±0.10 ANGULAR ±2° UNLESS OTHERWISE SPECIFIED	DRAWN Joan Lu	DATE 05/13/2020	TITLE SWIFT CONNECTOR VERTICAL, SMT TYPE		UNIT mm SCALE NA	SIZE A3 SHEET 5 OF 7	PART No. G99 X X X X X X HR DWG No. G99XXXXXXHR REV. AX15
	DESIGNED Joan Lu	CHECKED Sondra Sang					
	APPROVED Hank Hsu	PROJECT CODE 1673					
	DWG TYPE CUST DWG						

Amphenol®

Amphenol Corporation
 Amphenol Taiwan Corporation

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REVISIONS				
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AX12	N/A	CHANGED THE SHELL TH. POSITION	2020.03.13	IH. LEE
AX13	N/A	CHANGED THE SHELL SHAPE	2020.03.28	JOAN LU
AX14	N/A	CHANGED THE SHELL TH. POSITION	2020.04.11	JOAN LU
AX15	N/A	CHANGED THE SHELL TH. POSITION	2020.05.13	JOAN LU

124P SWIFT PIN ASSIGNMENT

X16+20Sideband Solution pin assignment				x20 Solution pin assignment				X16+20Sideband Solution pin assignment				x20 Solution pin assignment			
PIN Number	Pin definition	PIN Number	Pin definition	PIN Number	Pin definition	PIN Number	Pin definition	PIN Number	Pin definition	PIN Number	Pin definition	PIN Number	Pin definition	PIN Number	Pin definition
B1	GND	A1	GND	B1	GND	A1	GND	B38	GND	A38	GND	B38	GND	A38	GND
B2	TX	A2	RX	B2	TX	A2	RX	B39	TX	A39	RX	B39	TX	A39	RX
B3	TX	A3	RX	B3	TX	A3	RX	B40	TX	A40	RX	B40	TX	A40	RX
B4	GND	A4	GND	B4	GND	A4	GND	B41	GND	A41	GND	B41	GND	A41	GND
B5	TX	A5	RX	B5	TX	A5	RX	B42	TX	A42	RX	B42	TX	A42	RX
B6	TX	A6	RX	B6	TX	A6	RX	B43	TX	A43	RX	B43	TX	A43	RX
B7	GND	A7	GND	B7	GND	A7	GND	B44	GND	A44	GND	B44	GND	A44	GND
B8	Sideband	A8	Sideband	B8	TX	A8	RX	B45	TX	A45	RX	B45	TX	A45	RX
B9	Sideband	A9	Sideband	B9	TX	A9	RX	B46	TX	A46	RX	B46	TX	A46	RX
B10	Sideband	A10	Sideband	B10	GND	A10	GND	B47	GND	A47	GND	B47	GND	A47	GND
B11	Sideband	A11	Sideband	B11	TX	A11	RX	B48	TX	A48	RX	B48	TX	A48	RX
B12	Sideband	A12	Sideband	B12	TX	A12	RX	B49	TX	A49	RX	B49	TX	A49	RX
B13	GND	A13	GND	B13	GND	A13	GND	B50	GND	A50	GND	B50	GND	A50	GND
B14	TX	A14	RX	B14	TX	A14	RX	B51	TX	A51	RX	B51	TX	A51	RX
B15	TX	A15	RX	B15	TX	A15	RX	B52	TX	A52	RX	B52	TX	A52	RX
B16	GND	A16	GND	B16	GND	A16	GND	B53	GND	A53	GND	B53	GND	A53	GND
B17	TX	A17	RX	B17	TX	A17	RX	B54	TX	A54	RX	B54	TX	A54	RX
B18	TX	A18	RX	B18	TX	A18	RX	B55	TX	A55	RX	B55	TX	A55	RX
B19	GND	A19	GND	B19	GND	A19	GND	B56	GND	A56	GND	B56	GND	A56	GND
B20	TX	A20	RX	B20	TX	A20	RX	B57	TX	A57	RX	B57	TX	A57	RX
B21	TX	A21	RX	B21	TX	A21	RX	B58	TX	A58	RX	B58	TX	A58	RX
B22	GND	A22	GND	B22	GND	A22	GND	B59	GND	A59	GND	B59	GND	A59	GND
B23	TX	A23	RX	B23	TX	A23	RX	B60	TX	A60	RX	B60	TX	A60	RX
B24	TX	A24	RX	B24	TX	A24	RX	B61	TX	A61	RX	B61	TX	A61	RX
B25	GND	A25	GND	B25	GND	A25	GND	B62	GND	A62	GND	B62	GND	A62	GND
B26	Sideband	A26	Sideband	B26	TX	A26	RX								
B27	Sideband	A27	Sideband	B27	TX	A27	RX								
B28	Sideband	A28	Sideband	B28	GND	A28	GND								
B29	Sideband	A29	Sideband	B29	TX	A29	RX								
B30	Sideband	A30	Sideband	B30	TX	A30	RX								
B31	GND	A31	GND	B31	GND	A31	GND								
B32	TX	A32	RX	B32	TX	A32	RX								
B33	TX	A33	RX	B33	TX	A33	RX								
B34	GND	A34	GND	B34	GND	A34	GND								
B35	TX	A35	RX	B35	TX	A35	RX								
B36	TX	A36	RX	B36	TX	A36	RX								
B37	GND	A37	GND	B37	GND	A37	GND								



FOR REFERENCE ONLY

TOLERANCE	DRAWN	APPROVALS	DATE	TITLE				
X. X.X ±0.30 X.XX ±0.20 X.XXX ±0.10	DESIGNED	Joan Lu	05/13/2020	SWIFT CONNECTOR VERTICAL, SMT TYPE	Amphenol Corporation Amphenol Taiwan Corporation			
	CHECKED	Sondra Sang	05/13/2020		PART No. G99 X X X X X X HR			
ANGULAR ±2°	APPROVED	Hank Hsu	05/13/2020		UNIT	mm	SIZE	A3
UNLESS OTHERWISE SPECIFIED	DWG TYPE	CUST DWG	PROJECT CODE 1673		SCALE	NA	SHEET	6 OF 7

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SYM	ECN No.	DESCRIPTION	DATE	BY
AX12	N/A	CHANGED THE SHELL TH. POSITION	2020.03.13	IH. LEE
AX13	N/A	CHANGED THE SHELL SHAPE	2020.03.28	JOAN LU
AX14	N/A	CHANGED THE SHELL TH. POSITION	2020.04.11	JOAN LU
AX15	N/A	CHANGED THE SHELL TH. POSITION	2020.05.13	JOAN LU

148P SWIFT PIN ASSIGNMENT

X20+20Sideband Solution pin assignment				x24 Solution pin assignment				X20+20Sideband Solution pin assignment				x24 Solution pin assignment			
PIN Number	Pin definition	PIN Number	Pin definition	PIN Number	Pin definition	PIN Number	Pin definition	PIN Number	Pin definition	PIN Number	Pin definition	PIN Number	Pin definition		
B1	GND	A1	GND	B1	GND	A1	GND	B38	GND	A38	GND	B38	GND		
B2	TX	A2	RX	B2	TX	A2	RX	B39	TX	A39	RX	B39	TX		
B3	TX	A3	RX	B3	TX	A3	RX	B40	TX	A40	RX	B40	TX		
B4	GND	A4	GND	B4	GND	A4	GND	B41	GND	A41	GND	B41	GND		
B5	TX	A5	RX	B5	TX	A5	RX	B42	TX	A42	RX	B42	TX		
B6	TX	A6	RX	B6	TX	A6	RX	B43	TX	A43	RX	B43	TX		
B7	GND	A7	GND	B7	GND	A7	GND	B44	GND	A44	GND	B44	GND		
B8	Sideband	A8	Sideband	B8	TX	A8	RX	B45	TX	A45	RX	B45	TX		
B9	Sideband	A9	Sideband	B9	TX	A9	RX	B46	TX	A46	RX	B46	TX		
B10	Sideband	A10	Sideband	B10	GND	A10	GND	B47	GND	A47	GND	B47	GND		
B11	Sideband	A11	Sideband	B11	TX	A11	RX	B48	TX	A48	RX	B48	TX		
B12	Sideband	A12	Sideband	B12	TX	A12	RX	B49	TX	A49	RX	B49	TX		
B13	GND	A13	GND	B13	GND	A13	GND	B50	GND	A50	GND	B50	GND		
B14	TX	A14	RX	B14	TX	A14	RX	B51	TX	A51	RX	B51	TX		
B15	TX	A15	RX	B15	TX	A15	RX	B52	TX	A52	RX	B52	TX		
B16	GND	A16	GND	B16	GND	A16	GND	B53	GND	A53	GND	B53	GND		
B17	TX	A17	RX	B17	TX	A17	RX	B54	TX	A54	RX	B54	TX		
B18	TX	A18	RX	B18	TX	A18	RX	B55	TX	A55	RX	B55	TX		
B19	GND	A19	GND	B19	GND	A19	GND	B56	GND	A56	GND	B56	GND		
B20	TX	A20	RX	B20	TX	A20	RX	B57	TX	A57	RX	B57	TX		
B21	TX	A21	RX	B21	TX	A21	RX	B58	TX	A58	RX	B58	TX		
B22	GND	A22	GND	B22	GND	A22	GND	B59	GND	A59	GND	B59	GND		
B23	TX	A23	RX	B23	TX	A23	RX	B60	TX	A60	RX	B60	TX		
B24	TX	A24	RX	B24	TX	A24	RX	B61	TX	A61	RX	B61	TX		
B25	GND	A25	GND	B25	GND	A25	GND	B62	GND	A62	GND	B62	GND		
B26	Sideband	A26	Sideband	B26	TX	A26	RX	B63	TX	A63	RX	B63	TX		
B27	Sideband	A27	Sideband	B27	TX	A27	RX	B64	TX	A64	RX	B64	TX		
B28	Sideband	A28	Sideband	B28	GND	A28	GND	B65	GND	A65	GND	B65	GND		
B29	Sideband	A29	Sideband	B29	TX	A29	RX	B66	TX	A66	RX	B66	TX		
B30	Sideband	A30	Sideband	B30	TX	A30	RX	B67	TX	A67	RX	B67	TX		
B31	GND	A31	GND	B31	GND	A31	GND	B68	GND	A68	GND	B68	GND		
B32	TX	A32	RX	B32	TX	A32	RX	B69	TX	A69	RX	B69	TX		
B33	TX	A33	RX	B33	TX	A33	RX	B70	TX	A70	RX	B70	TX		
B34	GND	A34	GND	B34	GND	A34	GND	B71	GND	A71	GND	B71	GND		
B35	TX	A35	RX	B35	TX	A35	RX	B72	TX	A72	RX	B72	TX		
B36	TX	A36	RX	B36	TX	A36	RX	B73	TX	A73	RX	B73	TX		
B37	GND	A37	GND	B37	GND	A37	GND	B74	GND	A74	GND	B74	GND		

FOR REFERENCE ONLY



TOLERANCE	DRAWN	APPROVALS	DATE	TITLE						
X. X.X ±0.30 X.XX ±0.20 X.XXX ±0.10	DESIGNED	Joan Lu	05/13/2020	SWIFT CONNECTOR VERTICAL, SMT TYPE	Amphenol® Amphenol Corporation Amphenol Taiwan Corporation					
ANGULAR ±2°	CHECKED	Sondra Sang	05/13/2020		UNIT	mm	SIZE	A3	PART No.	G99 X X X X X X HR
UNLESS OTHERWISE SPECIFIED	APPROVED	Hank Hsu	05/13/2020		SCALE	NA	SHEET	7 OF 7	DWG No.	G99XXXXXXHR
	DWG TYPE	CUST DWG	PROJECT CODE	1673					REV	AX15