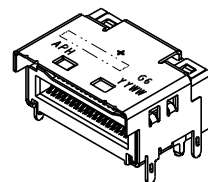




REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	BY
AX1	NA	INITIAL REVISION	2024-07-03	Sondra Sang
AX2	NA	ADD PIN ASSIGNMENT OPTIONS	2024-11-05	Sondra Sang



PART NUMBER
GH10 R 1 X X X X X HR

MINI COOL EDGE IO
INTERGRATED CONN.

RIGHT ANGLE TYPE

CONNECTOR SPEED
1: PCIe GEN 6.0

PIN Q'TY/ CHANNEL
1: 38P (4X+SB)
2: 74P (8X+SB)
4: 124P (16X+SB)
6: 148P (16X+SB)
A: 38P (6X)
B: 74P (12X)
C: 124P (20X)
D: 148P (24X)

COMPLIANT CODE
HR: HALOGEN FREE & RoHS

VARIATION CODE
BLANK: STANDARD

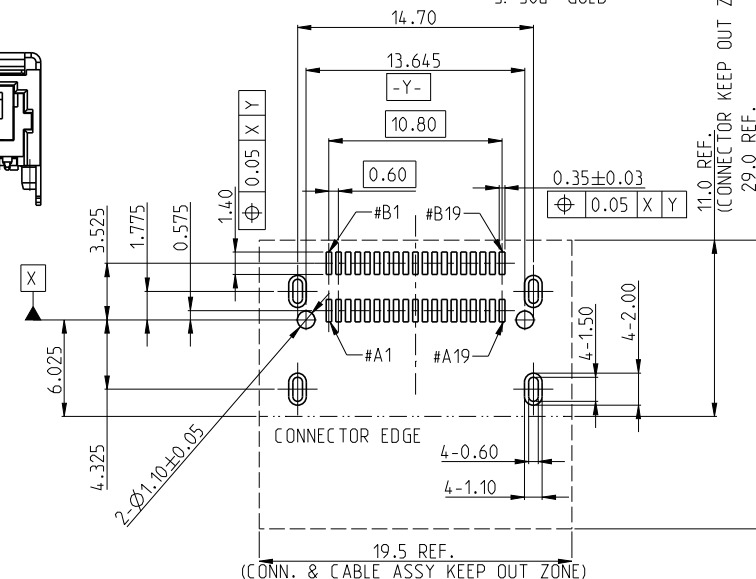
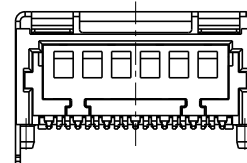
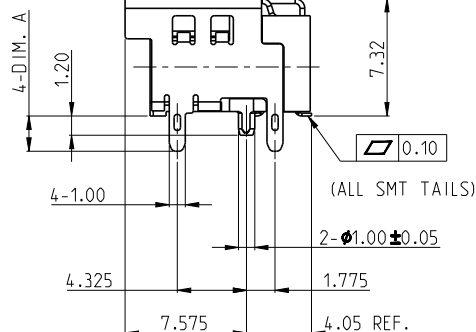
PACKING CODE
2: TAPE & REEL

SHELL TAIL LENGTH (DIM. A)
1: 1.50 mm
2: 2.20 mm
3: 3.00 mm
4: 4.20 mm
5: 1.20 mm

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

(ZONE)

ASSY KEEP OUT ZONE)

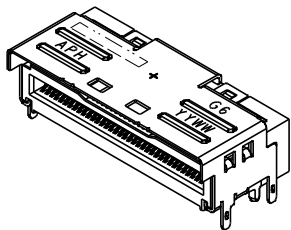


38 POS.

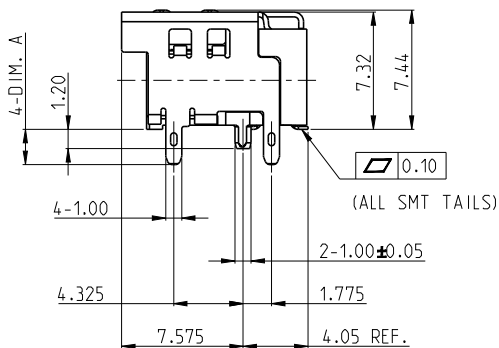
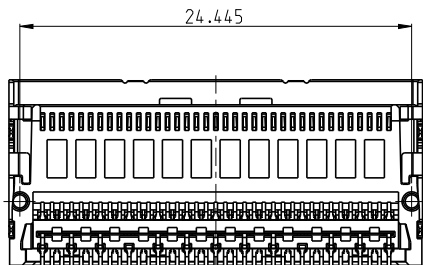
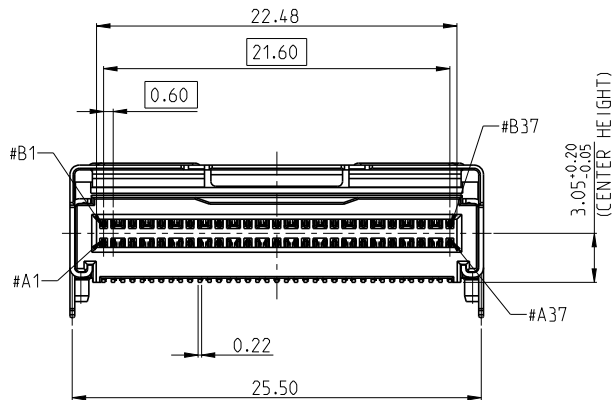
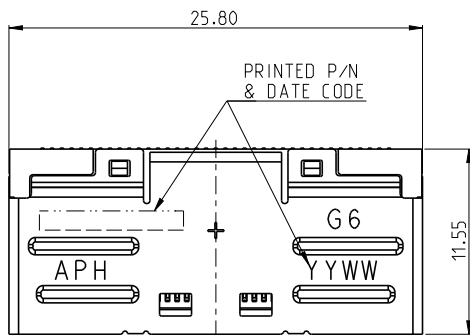
TOLERANCE	DRAWN APPROVALS		DATE	TITLE MINI COOL EDGE IO INTEGRATED CONNECTOR, 0.60mm PITCH, RA SMT TYPE FOR PCIe 6.0			Amphenol® Amphenol Corporation Amphenol Taiwan Corporation		
X. X.X ±0.30 X.XX ±0.20 X.XXX ±0.10	DESIGNED Sondra Sang	2024-11-05							
	CHECKED Joan Lu	2024-11-11							
ANGULAR ±2°	APPROVED Hank Hsu	2024-11-11		UNIT mm	SIZE A3	PART No. GH10R 1XX XX HR			
UNLESS OTHERWISE SPECIFIED	DWG TYPE CUST DWG	PROJECT CODE T0786		SCALE NA	SHEET 1 OF 8	DWG No. GH10R1XXXXHR		REV. AX2	

This document is the property of Amphenol Corporation and is delivered on the express condition that it is not to be disclosed, reproduced or used, in whole or in part, for manufacture or sale by anyone other than Amphenol Corporation without its prior consent, and that no right is granted to disclose or to use any information in this document.

The marking on this product doesn't contain environmental hazardous materials per directive 2011/65/EU & 2015/863/EU for RoHS compliant & per IEC 61249-2-21 for Halogen-Free compliant.

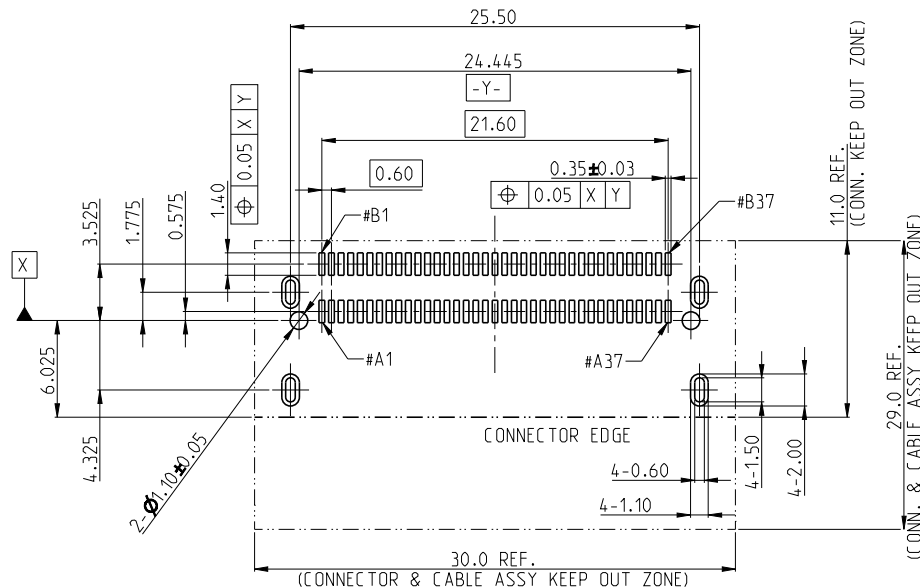


DATE CODE
YY WW
WW: WEEK NO.
YY: 24 (2024)

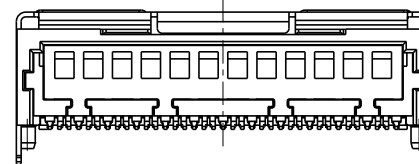


74 POS.

REVISIONS			
SYM	ECN No.	DESCRIPTION	DATE BY
AX1	NA	INITIAL REVISION	2024-07-03 Sondra Sang
AX2	NA	ADD PIN ASSIGNMENT OPTIONS	2024-11-05 Sondra Sang



RECOMMENDED PCB LAYOUT- TOP VIEW
(GENERAL TOLERANCES: ±0.05)

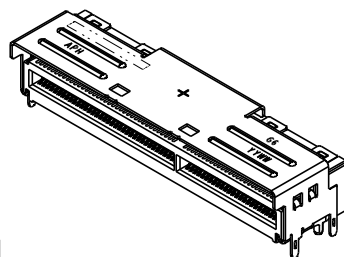
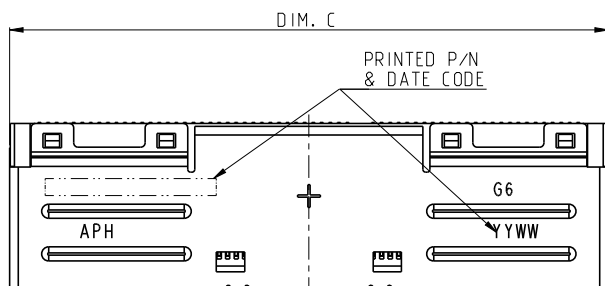


TOLERANCE		DRAWN		APPROVALS		DATE		TITLE			Amphenol® Amphenol Corporation Amphenol Taiwan Corporation						
X.		DESIGNED		Sondra Sang		2024-07-03		MINI COOL EDGE 10 INTERGRATED CONNECTOR, 0.60mm PITCH, RA SMT TYPE FOR PCIe 6.0									
X.X ±0.30		CHECKED		Joan Lu		2024-11-11											
X.XX ±0.20		APPROVED		Hank Hsu		2024-11-11											
X.XXX ±0.10																	
ANGULAR ±2°									UNIT	mm	SIZE	A3	PART No.	GH10R 1XX XX HR			
UNLESS OTHERWISE SPECIFIED		DWG TYPE		CUST DWG		PROJECT CODE		T0786		SCALE	NA	SHEET	2 OF 8	DWG No.	GH10R1XXXXHR	REV.	AX2

The marking on this product doesn't contain environmental hazardous materials per directive 2011/65/EU & 2015/863/EU for RoHS compliant & per IEC 61249-2-21 for Halogen-Free compliant.



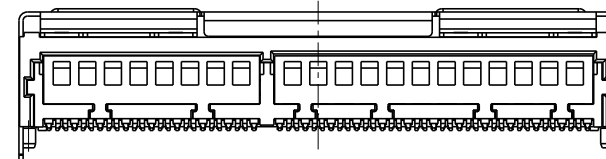
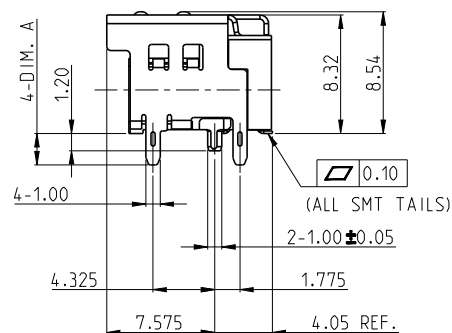
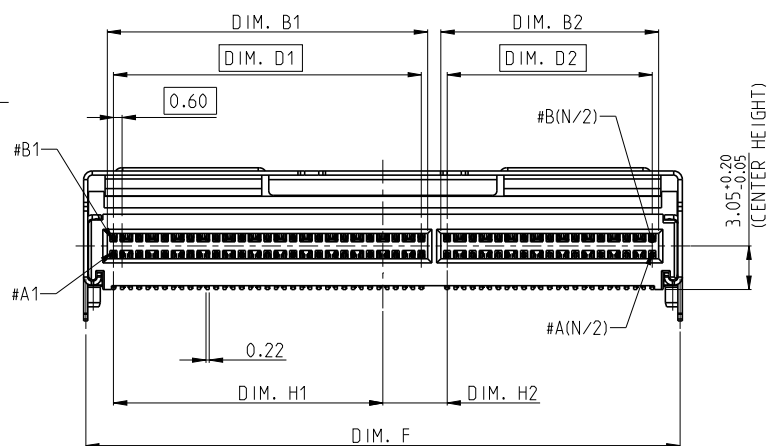
REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	BY
AX1	NA	INITIAL REVISION	2024-07-03	Sondra Sang
AX2	NA	ADD PIN ASSIGNMENT OPTIONS	2024-11-05	Sondra Sang



DATE CODE
YY WW

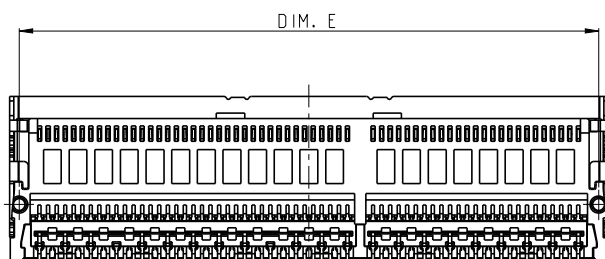
-W W: WEEK NO.

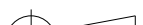
—YY: 24 (2024)



124 POS. & 148POS.

PART NUMBER	POS. (N)	DIM. B1	DIM. B2	DIM. C	DIM. D1	DIM. D2	DIM. E	DIM. F	DIM. H1	DIM. H2
GH10R14(C)XXXXHR	124	22.48	15.28	42.00	21.60	14.40	40.645	41.70	18.90	4.50
GH10R16(D)XXXXHR	148	22.48	22.48	49.20	21.60	21.60	47.845	48.90	22.50	0.90



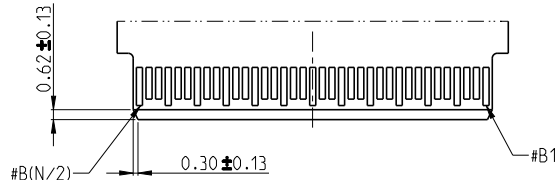
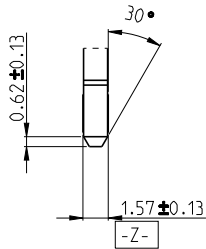
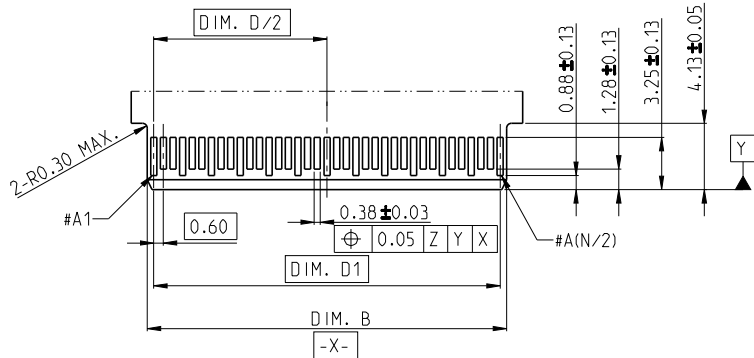
TOLERANCE	DRAWN APPROVALS		DATE	TITLE MINI COOL EDGE IO INTEGRATED CONNECTOR, 0.60mm PITCH, RA SMT TYPE FOR PCIe 6.0			Amphenol® Amphenol Corporation Amphenol Taiwan Corporation			
X. X.X ±0.30 X.XX ±0.20 X.XXX ±0.10	DESIGNED Sondra Sang	2024-11-05								
	CHECKED Joan Lu	2024-11-11								
	APPROVED Hank Hsu	2024-11-11								
ANGULAR ±2°					UNIT mm	SIZE A3	PART No. GH10R 1XX XX HR			
UNLESS OTHERWISE SPECIFIED	DWG TYPE CUST DWG	PROJECT CODE T0786				SCALE NA	SHEET 3 OF 8	DWG No. GH10R1XXXXHR		REV. AX2

This document is the property of Amphenol Corporation and is delivered on the express condition that it is not to be disclosed, reproduced or used, in whole or in part, for manufacture or sale by anyone other than Amphenol Corporation without its prior consent, and that no right is granted to disclose or to use any information in this document.

The marking on this product doesn't contain environmental hazardous materials per directive 2011/65/EU & 2015/863/EU for RoHS compliant & per IEC 61249-2-21 for Halogen-Free compliant.

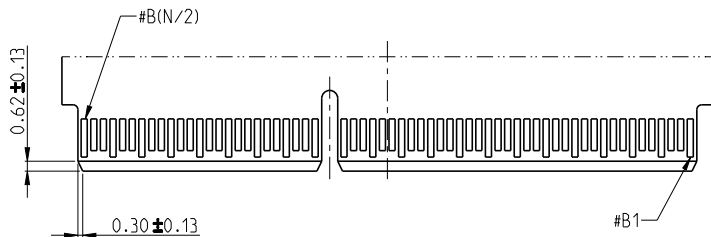
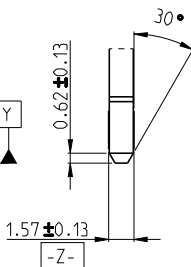
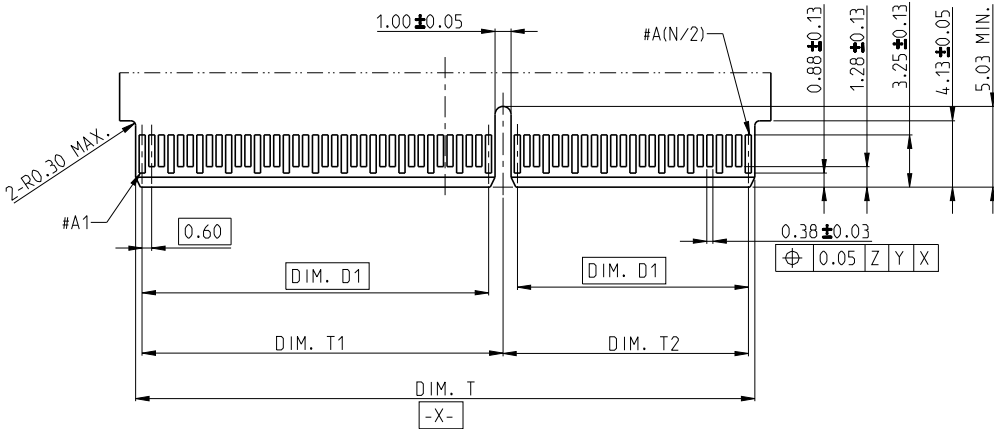


REVISIONS			
SYM	ECN No.	DESCRIPTION	DATE BY
AX1	NA	INITIAL REVISION	2024-07-03 Sondra Sang
AX2	NA	ADD PIN ASSIGNMENT OPTIONS	2024-11-05 Sondra Sang



PART NUMBER	POS.	DIM. B	DIM. D1
GH10R11(A)XXXXHR	38P	11.60	10.80
GH10R12(B)XXXXHR	74P	22.40	21.60

RECOMMENDED MATING CARD- 38P & 74P
(GENERAL TOLERANCES: ±0.05)



PART NUMBER	POS. (N)	DIM. D1	DIM. D2	DIM. H	DIM. T1	DIM. T2	DIM. T
GH10R14(C)XXXXHR	124	21.60	14.40	3.60	22.50	15.30	38.60
GH10R16(D)XXXXHR	148	21.60	21.60	0.00	22.50	22.50	45.80

RECOMMENDED MATING CARD- 124P & 148P
(GENERAL TOLERANCES: ±0.05)

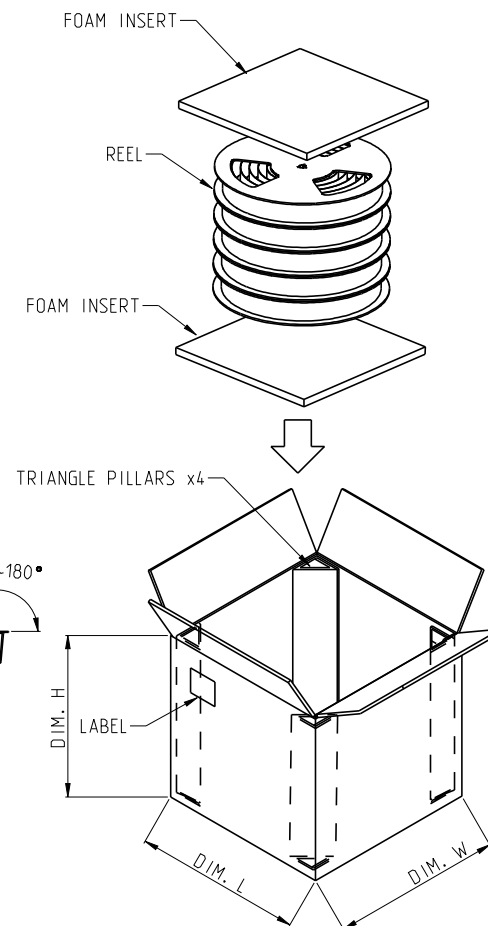
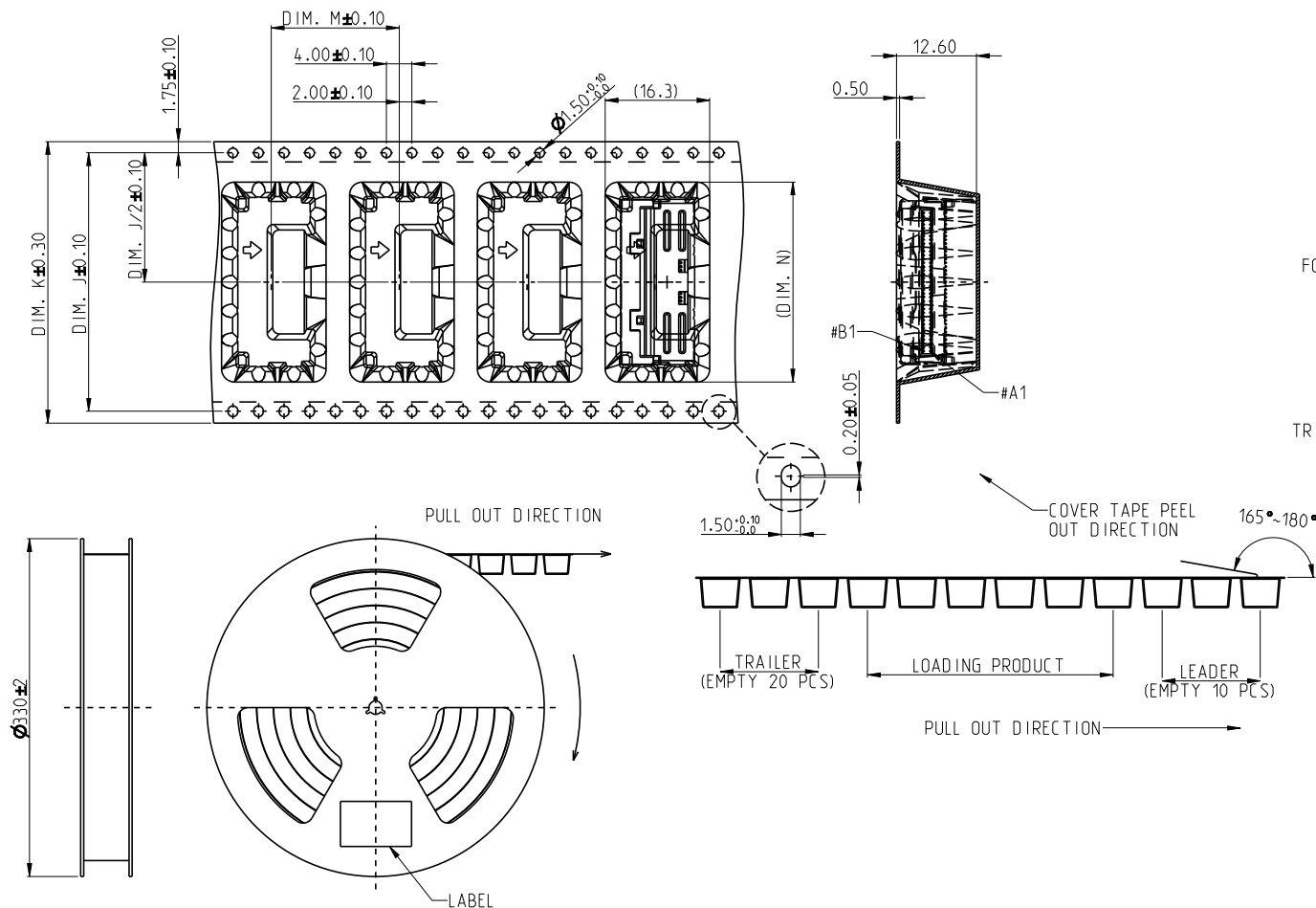
TOLERANCE	APPROVALS	DATE	TITLE MINI COOL EDGE 10 INTERGRATED CONNECTOR, 0.60mm PITCH, RA SMT TYPE FOR PCIe 6.0			Amphenol® Amphenol Corporation Amphenol Taiwan Corporation	
X. ±0.30 X.X ±0.20 X.XX ±0.10	DESIGNED Sondra Sang	2024-07-03					
ANGULAR ±2°	CHECKED Joan Lu	2024-11-11		UNIT mm	SIZE A3	PART No. GH10R 1XX XX HR	
UNLESS OTHERWISE SPECIFIED	APPROVED Hank Hsu	2024-11-11		SCALE NA	SHEET 4 OF 8	DWG No. GH10R1XXXXHR	REV. AX2
	DWG TYPE CUST DWG	PROJECT CODE T0786					

The marking on this product doesn't contain environmental hazardous materials per directive 2011/65/EU & 2015/863/EU for RoHS compliant & per IEC 61249-2-21 for Halogen-Free compliant.

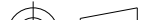


REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	BY
AX1	NA	INITIAL REVISION	2024-07-03	Sondra Sang
AX2	NA	ADD PIN ASSIGNMENT OPTIONS	2024-11-05	Sondra Sang

PART NUMBER	POS.	DIM. J	DIM. K	DIM. M	DIM. N	PCS/ REEL	PCS/ CARTON	DIM. LxWxH
GH10R11(A)XX2XHR	38P	28.40	32.00	20.00	(20.9)	225	1350	355x355x265
GH10R12(B)XX2XHR	74P	40.40	44.00	20.00	(32.5)	250	1250	355x355x290
GH10R14(C)XX2XHR	124P	68.40	72.00	20.00	(39.5)	220	660	355x355x290
GH10R16(D)XX2XHR	148P	68.40	72.00	20.00	(49.4)	220	660	355x355x290



1. MATERIAL:
CARRIER: POLYSTYRENE, BLACK
COVER TAPE: TRANSPARENT POLYSTYRENE
REEL: POLYSTYRENE, BLACK
2. ALL TAPE AND REEL SPECIFICATION FOLLOW EIA-481 STANDARD.
3. PREFER TO AMTA LABELING STANDARD.
4. CARTON CLOSURES MUST BE SEALED WITH TAPE.
5. THIS PRODUCT DOESN'T CONTAIN ENVIRONMENTAL HAZROOUS
DIRECTIVE 2011/65/EU AND 2015/863/EU FOR ROHS COMPLIANT.

TOLERANCE	DRAWN APPROVALS		DATE	TITLE MINI COOL EDGE IO INTERGRATED CONNECTOR, 0.60mm PITCH, RA SMT TYPE FOR PCIe 6.0			Amphenol® Amphenol Corporation Amphenol Taiwan Corporation		
X. X.X ±0.30 X.XX ±0.20 X.XXX ±0.10	DESIGNED Sondra Sang	2024-07-03							
	CHECKED Joan Lu	2024-11-11							
ANGULAR ±2°	APPROVED Hank Hsu	2024-11-11							
UNLESS OTHERWISE SPECIFIED	DWG TYPE CUST DWG	PROJECT CODE T0786		UNIT mm	SIZE A3	PART No. GH10R 1XX XX HR			
				SCALE NA	SHEET 5 OF 8	DWG No. GH10R1XXXXHR	REV. AX2		

This document is the property of Amphenol Corporation and is delivered on the express condition that it is not to be disclosed, reproduced or used, in whole or in part, for manufacture or sale by anyone other than Amphenol Corporation without its prior consent, and that no right is granted to disclose or to use any information in this document.

The marking on this product doesn't contain environmental hazardous materials per directive 2011/65/EU & 2015/863/EU for RoHS compliant & per IEC 61249-2-21 for Halogen-Free compliant.



REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	BY
AX1	NA	INITIAL REVISION	2024-07-03	Sondra Sang
AX2	NA	ADD PIN ASSIGNMENT OPTIONS	2024-11-05	Sondra Sang

38P PIN ASSIGNMENT			
X4+10P SIDEBAND SOLUTION (GH10R11XXXHR)			
PIN NUMBER	PIN DEFINITION	PIN NUMBER	PIN DEFINITION
B1	GND	A1	GND
B2	TX	A2	RX
B3	TX	A3	RX
B4	GND	A4	GND
B5	TX	A5	RX
B6	TX	A6	RX
B7	GND	A7	GND
B8	SIDEBAND	A8	SIDEBAND
B9	SIDEBAND	A9	SIDEBAND
B10	SIDEBAND	A10	SIDEBAND
B11	SIDEBAND	A11	SIDEBAND
B12	SIDEBAND	A12	SIDEBAND
B13	GND	A13	GND
B14	TX	A14	RX
B15	TX	A15	RX
B16	GND	A16	GND
B17	TX	A17	RX
B18	TX	A18	RX
B19	GND	A19	GND

38P PIN ASSIGNMENT			
X6 SOLUTION (GH10R1AXXXHR)			
PIN NUMBER	PIN DEFINITION	PIN NUMBER	PIN DEFINITION
B1	GND	A1	GND
B2	TX	A2	RX
B3	TX	A3	RX
B4	GND	A4	GND
B5	TX	A5	RX
B6	TX	A6	RX
B7	GND	A7	GND
B8	TX	A8	RX
B9	TX	A9	RX
B10	GND	A10	GND
B11	TX	A11	RX
B12	TX	A12	RX
B13	GND	A13	GND
B14	TX	A14	RX
B15	TX	A15	RX
B16	GND	A16	GND
B17	TX	A17	RX
B18	TX	A18	RX
B19	GND	A19	GND

74P PIN ASSIGNMENT			
X8+20P SIDEBAND SOLUTION (GH10R12XXXHR)			
PIN NUMBER	PIN DEFINITION	PIN NUMBER	PIN DEFINITION
B1	GND	A1	GND
B2	TX	A2	RX
B3	TX	A3	RX
B4	GND	A4	GND
B5	TX	A5	RX
B6	TX	A6	RX
B7	GND	A7	GND
B8	SIDEBAND	A8	SIDEBAND
B9	SIDEBAND	A9	SIDEBAND
B10	SIDEBAND	A10	SIDEBAND
B11	SIDEBAND	A11	SIDEBAND
B12	SIDEBAND	A12	SIDEBAND
B13	GND	A13	GND
B14	TX	A14	RX
B15	TX	A15	RX
B16	GND	A16	GND
B17	TX	A17	RX
B18	TX	A18	RX
B19	GND	A19	GND
B20	TX	A20	RX
B21	TX	A21	RX
B22	GND	A22	GND
B23	TX	A23	RX
B24	TX	A24	RX
B25	GND	A25	GND
B26	SIDEBAND	A26	SIDEBAND
B27	SIDEBAND	A27	SIDEBAND
B28	SIDEBAND	A28	SIDEBAND
B29	SIDEBAND	A29	SIDEBAND
B30	SIDEBAND	A30	SIDEBAND
B31	GND	A31	GND
B32	TX	A32	RX
B33	TX	A33	RX
B34	GND	A34	GND
B35	TX	A35	RX
B36	TX	A36	RX
B37	GND	A37	GND

74P PIN ASSIGNMENT			
X12 SOLUTION (GH10R1BXXXHR)			
PIN NUMBER	PIN DEFINITION	PIN NUMBER	PIN DEFINITION
B1	GND	A1	GND
B2	TX	A2	RX
B3	TX	A3	RX
B4	GND	A4	GND
B5	TX	A5	RX
B6	TX	A6	RX
B7	GND	A7	GND
B8	TX	A8	RX
B9	TX	A9	RX
B10	GND	A10	GND
B11	TX	A11	RX
B12	TX	A12	RX
B13	GND	A13	GND
B14	TX	A14	RX
B15	TX	A15	RX
B16	GND	A16	GND
B17	TX	A17	RX
B18	TX	A18	RX
B19	GND	A19	GND
B20	TX	A20	RX
B21	TX	A21	RX
B22	GND	A22	GND
B23	TX	A23	RX
B24	TX	A24	RX
B25	GND	A25	GND
B26	TX	A26	RX
B27	TX	A27	RX
B28	GND	A28	GND
B29	TX	A29	RX
B30	TX	A30	RX
B31	GND	A31	GND
B32	TX	A32	RX
B33	TX	A33	RX
B34	GND	A34	GND
B35	TX	A35	RX
B36	TX	A36	RX
B37	GND	A37	GND

TOLERANCE		DRAWN APPROVALS		DATE	TITLE MINI COOL EDGE 10 INTERGRATED CONNECTOR, 0.60mm PITCH, RA SMT TYPE FOR PCIe 6.0			Amphenol® Amphenol Corporation Amphenol Taiwan Corporation						
X. X.X ±0.30 X.XX ±0.20 X.XXX ±0.10	ANGULAR ±2°	DESIGNED	Sondra Sang	2024-11-05										
		CHECKED	Joan Lu	2024-11-11										
		APPROVED	Hank Hsu	2024-11-11										
UNLESS OTHERWISE SPECIFIED		DWG TYPE	CUST DWG	PROJECT CODE	T0786		UNIT	mm	SIZE	A3	PART No.	GH10R 1XX XX HR		
							SCALE	NA	SHEET	6 OF 8	DWG No.	GH10R1XXXXHR	REV.	AX2

This document is the property of Amphenol Corporation and is delivered on the express condition that it is not to be disclosed, reproduced or used, in whole or in part, for manufacture or sale by anyone other than Amphenol Corporation without its prior consent, and that no right is granted to disclose or to use any information in this document.

The marking on this product doesn't contain environmental hazardous materials per directive 2011/65/EU & 2015/863/EU for RoHS compliant & per IEC 61249-2-21 for Halogen-Free compliant.



REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	BY
AX1	NA	INITIAL REVISION	2024-07-03	Sondra Sang
AX2	NA	ADD PIN ASSIGNMENT OPTIONS	2024-11-05	Sondra Sang

124P PIN ASSIGNMENT							
X16+20P SIDEBAND SOLUTION (GH10R14XXXHR)							
PIN NUMBER	PIN DEFINITION	PIN NUMBER	PIN DEFINITION	PIN NUMBER	PIN DEFINITION	PIN NUMBER	PIN DEFINITION
B1	GND	A1	GND	B38	GND	A38	GND
B2	TX	A2	RX	B39	TX	A39	RX
B3	TX	A3	RX	B40	TX	A40	RX
B4	GND	A4	GND	B41	GND	A41	GND
B5	TX	A5	RX	B42	TX	A42	RX
B6	TX	A6	RX	B43	TX	A43	RX
B7	GND	A7	GND	B44	GND	A44	GND
B8	SIDEBAND	A8	SIDEBAND	B45	TX	A45	RX
B9	SIDEBAND	A9	SIDEBAND	B46	TX	A46	RX
B10	SIDEBAND	A10	SIDEBAND	B47	GND	A47	GND
B11	SIDEBAND	A11	SIDEBAND	B48	TX	A48	RX
B12	SIDEBAND	A12	SIDEBAND	B49	TX	A49	RX
B13	GND	A13	GND	B50	GND	A50	GND
B14	TX	A14	RX	B51	TX	A51	RX
B15	TX	A15	RX	B52	TX	A52	RX
B16	GND	A16	GND	B53	GND	A53	GND
B17	TX	A17	RX	B54	TX	A54	RX
B18	TX	A18	RX	B55	TX	A55	RX
B19	GND	A19	GND	B56	GND	A56	GND
B20	TX	A20	RX	B57	TX	A57	RX
B21	TX	A21	RX	B58	TX	A58	RX
B22	GND	A22	GND	B59	GND	A59	GND
B23	TX	A23	RX	B60	TX	A60	RX
B24	TX	A24	RX	B61	TX	A61	RX
B25	GND	A25	GND	B62	GND	A62	GND
B26	SIDEBAND	A26	SIDEBAND				
B27	SIDEBAND	A27	SIDEBAND				
B28	SIDEBAND	A28	SIDEBAND				
B29	SIDEBAND	A29	SIDEBAND				
B30	SIDEBAND	A30	SIDEBAND				
B31	GND	A31	GND				
B32	TX	A32	RX				
B33	TX	A33	RX				
B34	GND	A34	GND				
B35	TX	A35	RX				
B36	TX	A36	RX				
B37	GND	A37	GND				

124P PIN ASSIGNMENT							
X20 SIDEBAND SOLUTION (GH10R1CXXXHR)							
PIN NUMBER	PIN DEFINITION	PIN NUMBER	PIN DEFINITION	PIN NUMBER	PIN DEFINITION	PIN NUMBER	PIN DEFINITION
B1	GND	A1	GND	B38	GND	A38	GND
B2	TX	A2	RX	B39	TX	A39	RX
B3	TX	A3	RX	B40	TX	A40	RX
B4	GND	A4	GND	B41	GND	A41	GND
B5	TX	A5	RX	B42	TX	A42	RX
B6	TX	A6	RX	B43	TX	A43	RX
B7	GND	A7	GND	B44	GND	A44	GND
B8	TX	A8	RX	B45	TX	A45	RX
B9	TX	A9	RX	B46	TX	A46	RX
B10	GND	A10	GND	B47	GND	A47	GND
B11	TX	A11	RX	B48	TX	A48	RX
B12	TX	A12	RX	B49	TX	A49	RX
B13	GND	A13	GND	B50	GND	A50	GND
B14	TX	A14	RX	B51	TX	A51	RX
B15	TX	A15	RX	B52	TX	A52	RX
B16	GND	A16	GND	B53	GND	A53	GND
B17	TX	A17	RX	B54	TX	A54	RX
B18	TX	A18	RX	B55	TX	A55	RX
B19	GND	A19	GND	B56	GND	A56	GND
B20	TX	A20	RX	B57	TX	A57	RX
B21	TX	A21	RX	B58	TX	A58	RX
B22	GND	A22	GND	B59	GND	A59	GND
B23	TX	A23	RX	B60	TX	A60	RX
B24	TX	A24	RX	B61	TX	A61	RX
B25	GND	A25	GND	B62	GND	A62	GND
B26	TX	A26	RX				
B27	TX	A27	RX				
B28	GND	A28	GND				
B29	TX	A29	RX				
B30	TX	A30	RX				
B31	GND	A31	GND				
B32	TX	A32	RX				
B33	TX	A33	RX				
B34	GND	A34	GND				
B35	TX	A35	RX				
B36	TX	A36	RX				
B37	GND	A37	GND				

TOLERANCE	DRAWN APPROVALS	DATE	TITLE MINI COOL EDGE 10 INTERGRATED CONNECTOR, 0.60mm PITCH, RA SMT TYPE FOR PCIe 6.0		Amphenol® Amphenol Corporation Amphenol Taiwan Corporation			
X. X.X ±0.30 X.XX ±0.20 X.XXX ±0.10 ANGULAR ±2° UNLESS OTHERWISE SPECIFIED	DESIGNED Sondra Sang	2024-11-05						
	CHECKED Joan Lu	2024-11-11						
	APPROVED Hank Hsu	2024-11-11						
	DWG TYPE CUST DWG	PROJECT CODE T0786		UNIT mm	SIZE A3	PART No. GH10R 1XX XX HR		
			SCALE NA	SHEET 7 OF 8	DWG No. GH10R1XXXXHR	REV. AX2		

3