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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
A	NE-22083	RELEASE TO PRODUCTION	11/01/2022	JOAN LU
B	NE-24014	DATE CODE ADDED ONE MORE CODE	01/18/2024	JOAN LU
C	NE-24244	ADDED SHELL PIN LENGTH CODE 5 INFORMATION IN PCB LAYOUT	10/30/2024	JOAN LU

A

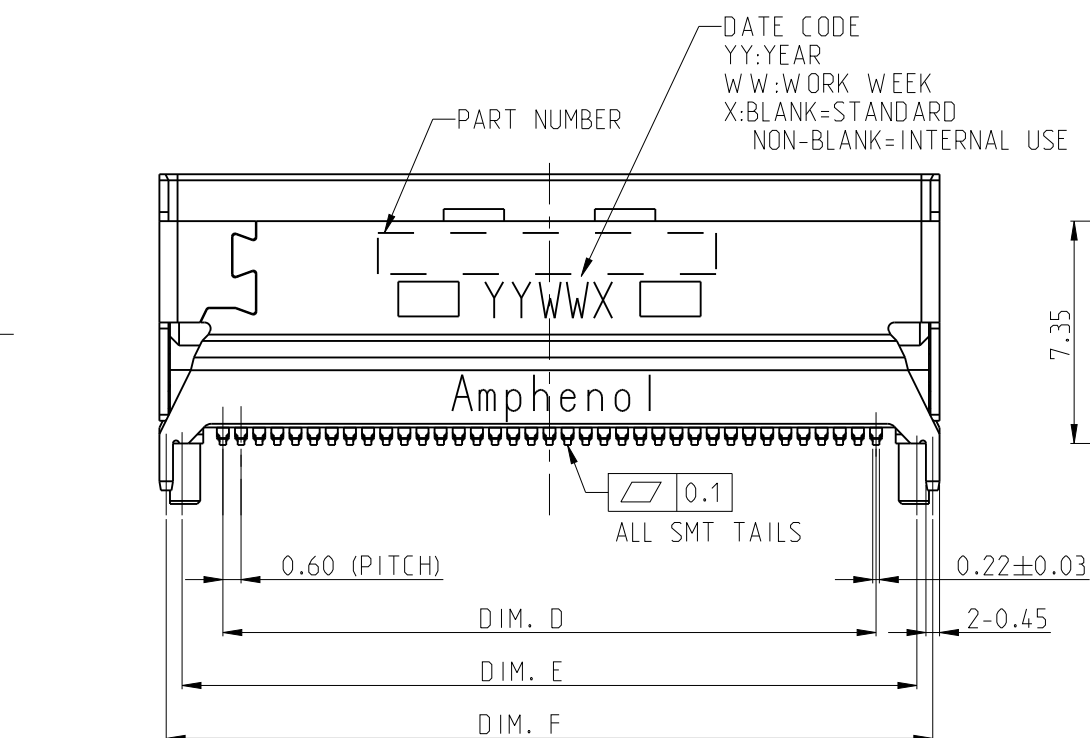
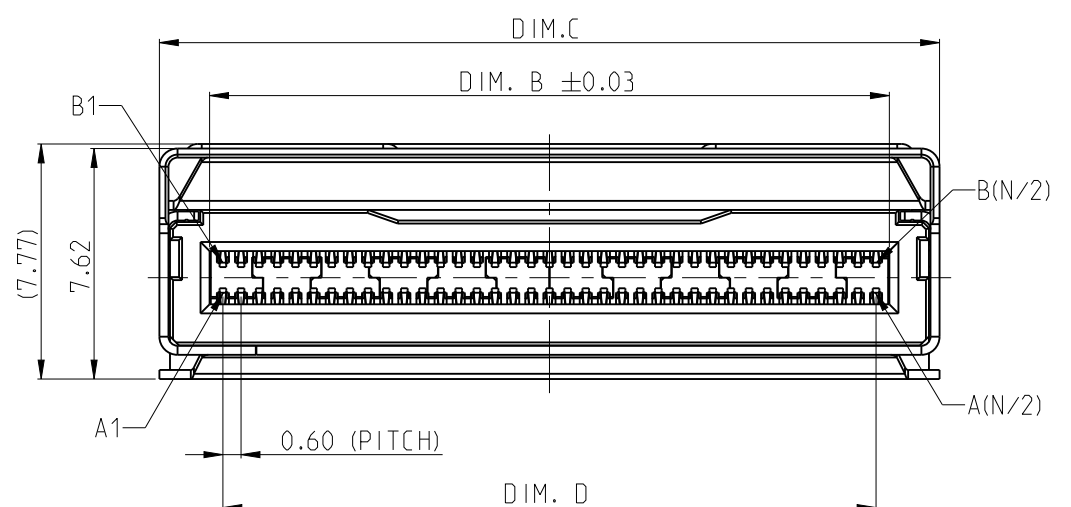
B

C

D

E

F



PART NUMBER	DIM. A	DIM. B
G97VXXX1XHR	1.50	2.00
G97VXXX2XHR	2.20	2.00
G97VXXX3XHR	3.00	2.00
G97VXXX4XHR	4.20	2.00
G97VXXX5XHR	1.20	1.20

NOTES:

1. MATERIALS:
PLASTICS : HIGH TEMPERATURE THERMOPLASTIC
UL94V-0,COLOR:BLACK
PLASTIC MATERIAL: E83005
SHELL : STAINLESS
CONTACT: COPPER ALLOY

2. FINISH
TERMINAL : CONTACT AREA : SELECTED GOLD PLATING.
SOLDER AREA : MATTE TIN PLATING 100u"
UNDER PLATING: NICKEL PLATING 50u"MIN OVER ALL

SHELL : UNDER PLATING: ELECTROLESS NICKEL PLATING 50u"MIN OVER ALL

3.THIS PRODUCT DOESN'T CONTAIN ENVIROMENTAL HAZARDOUS MATERIALS PER DERCTIVE 2011/65/EU & 2015/863/EU FOR RoHS AND PER IEC 61249-2-21 FOR HALOGEN FREE.

4.PRODUCT SPEC REFER TO PS-7755

MINI COOL EDGE IO INTEGRATED CONNECTOR

VERTICAL TYPE

CONNECTOR SPEED
2 : PCIE GEN 5

CHANNEL/PIN QTY
1: 38P(4X+SIDEBAND OR 6X)
2: 74P(8X+SIDEBAND OR 12X)
4: 124P(16X+SIDEBAND OR 20X)
5: 50P(6X+SIDEBAND OR 8X)
6: 148P(20X+SIDEBAND OR 24X)
7: 84P(8X+SIDEBAND OR 13X+SIDEBAND)

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

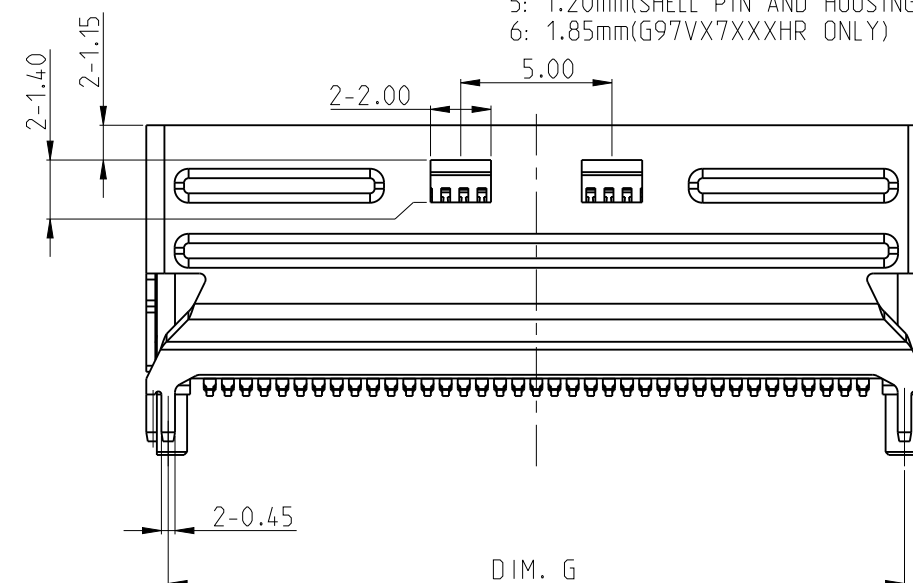
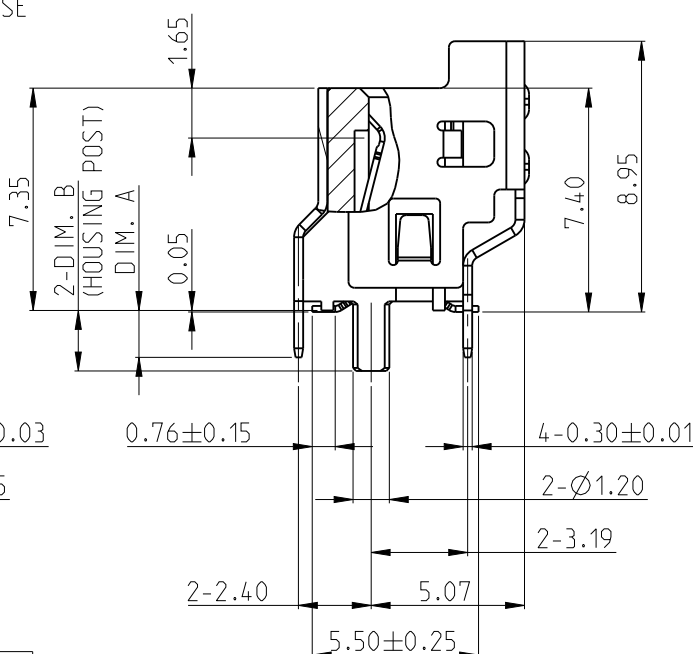
G97 V 2 X X X X X X HR

COMPLIANT CODE
HR: HALOGEN-FREE & RoHS

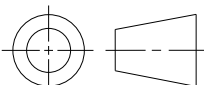
VARIATION CODE
BLANK: STANDARD

PACKING CODE
2: TAPE AND REEL(WITH CAP)
3: TAPE AND REEL(W/O PICK UP)
4: TAPE AND REEL
(WITH MYLAR, FOR G97VX7XX4HR ONLY)
5. TAPE AND REEL WITH CUSTOMIZED

SHELL PIN LENGTH OPTION(DIM.A)
1: 1.50mm
2: 2.20mm
3: 3.00mm
4: 4.20mm
5: 1.20mm(SHELL PIN AND HOUSING POST)
6: 1.85mm(G97VX7XXXHR ONLY)



PART NUMBER	POS. (N)	DIM. B	DIM. C	DIM. D	DIM. E	DIM. F	DIM.G
G97VX1XXXHR	38	11.68	15.00	10.80	13.50	14.55	13.55
G97VX5XXXHR	50	15.28	18.60	14.40	17.10	18.15	17.15
G97VX2XXXHR	74	22.48	25.80	21.60	24.30	25.35	24.35

TOLERANCE	DRAWN	APPROVALS	DATE	TITLE			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	JOAN LU	2024-10-30	MINI COOL EDGE IO INTEGRATED CONNECTOR 0.6 PITCH. VERTICAL FOR PCIE. SMT TYPE					
	CHECKED	Sondra Sang	2024-11-04						
	APPROVED	Hank Hsu	2024-11-04						
DWG TYPE		CUST DWG	PROJECT CODE	T735		UNIT mm	SIZE A3	PART No. G97VXXXXXHR	
					SCALE NA	SHEET 1 OF 12	DWG No. G97VXXXXXHR		REV. C

A

B

C

D

E

F

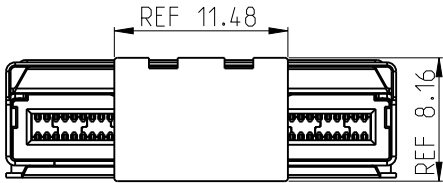
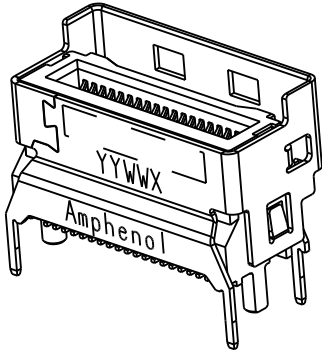
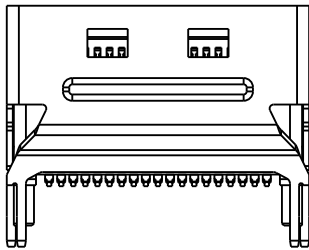
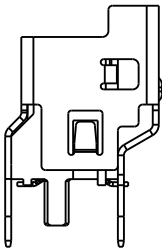
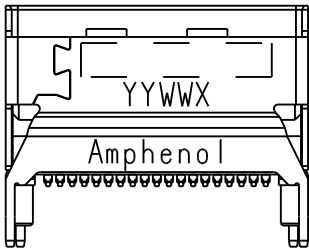
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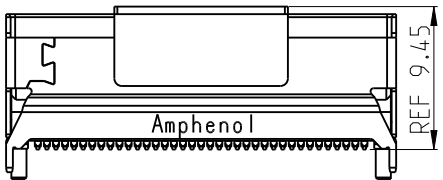
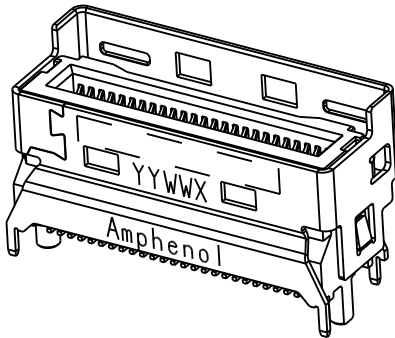
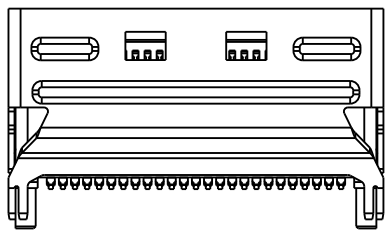
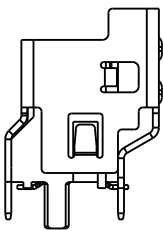
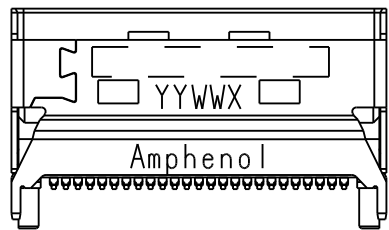


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C	NE-24244	ADDED SHELL PIN LENGTH CODE 5 INFORMATION IN PCB LAYOUT	10/30/2024	JOAN LU

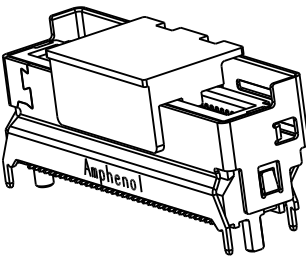
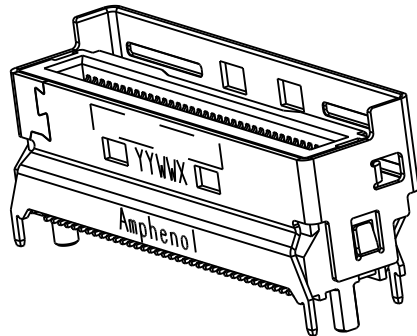
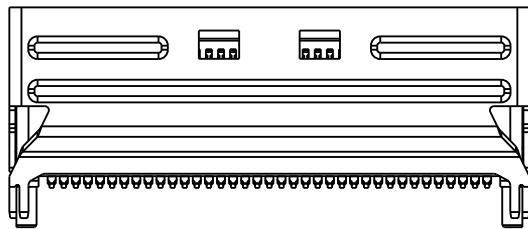
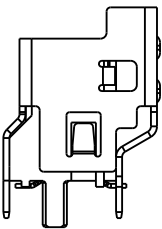
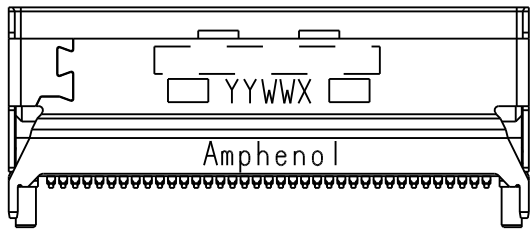
G97VX1XXXHR



G97VX5XXXHR



G97VX2XXXHR



CAP DIMENSION
APPLCABLE PART NUMBER:
G97VX1XX2HR
G97VX2XX2HR
G97VX5XX2HR

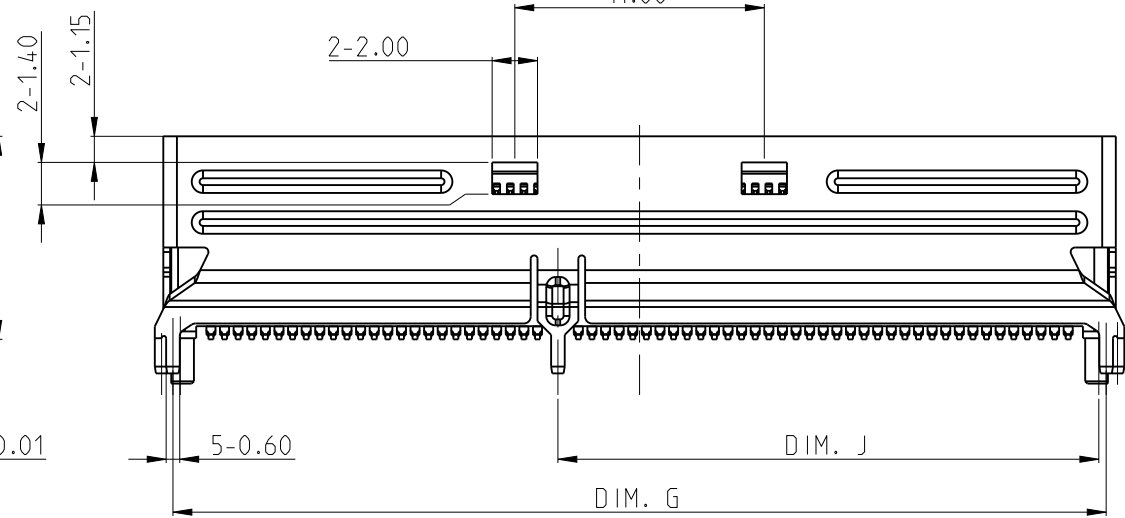
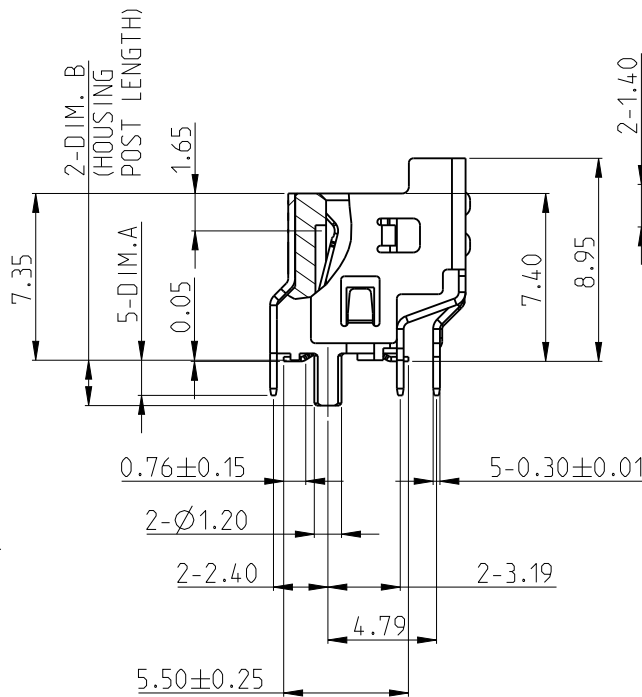
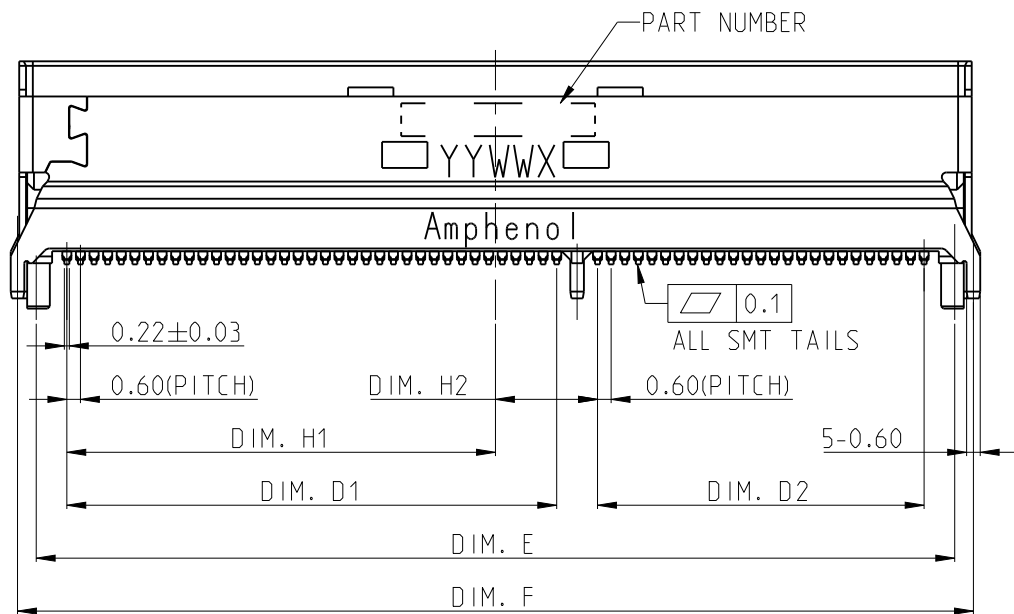
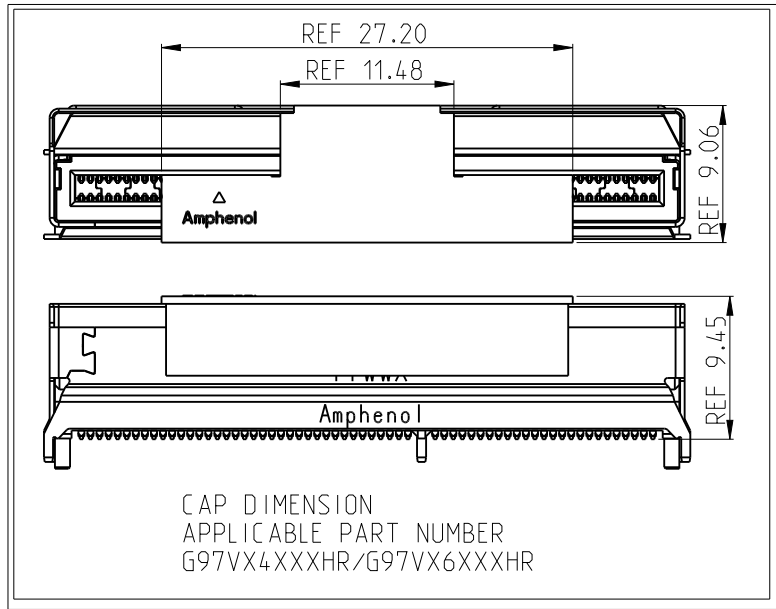
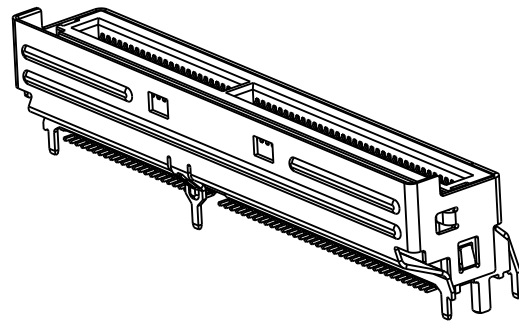
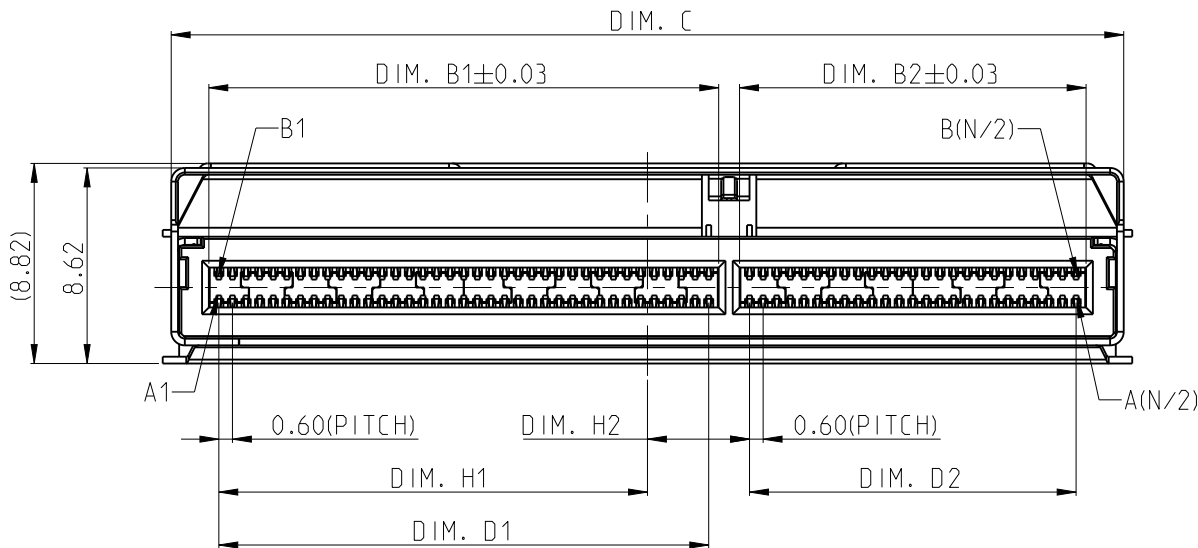
TOLERANCE	DRAWN APPROVALS	DATE	TITLE MINI COOL EDGE 10 INTEGRATED CONNECTOR 0.6 PITCH. VERTICAL FOR PCIE. SMT TYPE			Amphenol® Amphenol Corporation Amphenol Taiwan Corporation				
X. X.X ±0.30 X.XX ±0.20 X.XXX ±0.10 ANGULAR ±2°	DESIGNED JOAN LU	2024-10-30							PART No. G97VXXXXXHR	
	CHECKED Sondra Sang	2024-11-04							UNIT mm SIZE A3	
	APPROVED Hank Hsu	2024-11-04							SCALE NA SHEET 2 OF 12	
UNLESS OTHERWISE SPECIFIED	DWG TYPE CUST DWG	PROJECT CODE T735				DWG No. G97VXXXXXHR		REV. C		

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B	NE-24014	DATE CODE ADDED ONE MORE CODE	01/18/2024	JOAN LU
C	NE-24244	ADDED SHELL PIN LENGTH CODE 5 INFORMATION IN PCB LAYOUT	10/30/2024	JOAN LU



PART NUMBER	POS. (N)	DIM. B1	DIM. B2	DIM. C	DIM. D1	DIM. D2	DIM. E	DIM. F	DIM. G	DIM. H1	DIM. H2	DIM. J
G97VX4XXXHR	124	22.48	15.28	42.00	21.60	14.40	40.50	42.15	41.15	18.90	4.50	23.85
G97VX6XXXHR	148	22.48	22.48	49.20	21.60	21.60	47.70	49.35	48.35	22.50	0.90	23.85

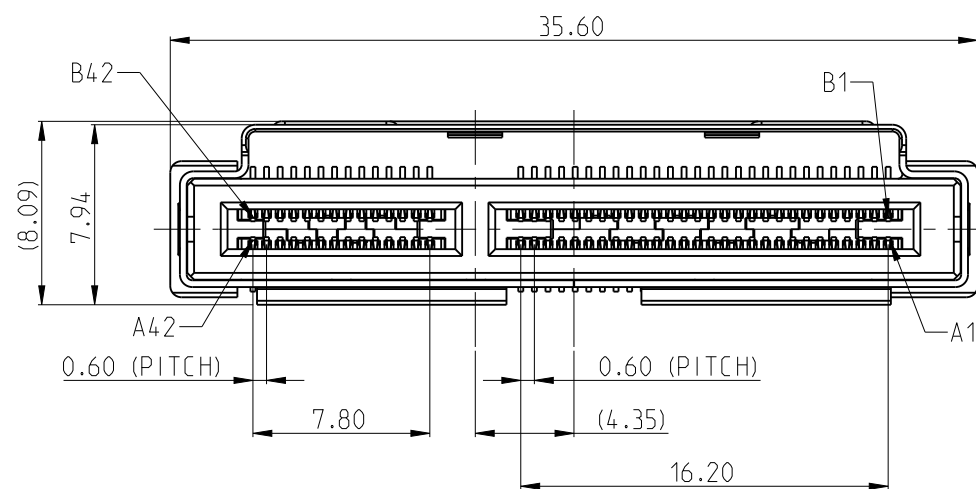
TOLERANCE	DRAWN	APPROVALS	DATE	TITLE MINI COOL EDGE 10 INTEGRATED CONNECTOR 0.6 PITCH. VERTICAL FOR PCIE. SMT TYPE		UNIT mm		SIZE A3		PART No. G97VXXXXXHR	
X. X.X ±0.30 X.XX ±0.20 X.XXX ±0.10	DESIGNED	JOAN LU	2024-10-30								
ANGULAR ±2°	CHECKED	Sondra Sang	2024-11-04	APPROVED Hank Hsu		2024-11-04		SCALE NA		SHEET 3 OF 12	
UNLESS OTHERWISE SPECIFIED	DWG TYPE	CUST DWG	PROJECT CODE T735			DWG No.		G97VXXXXXHR		REV. C	

Amphenol®
Amphenol Corporation
Amphenol Taiwan Corporation

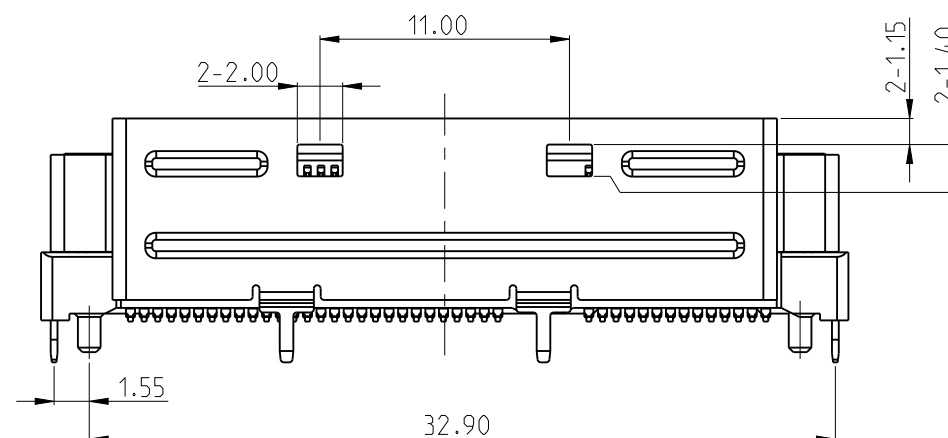
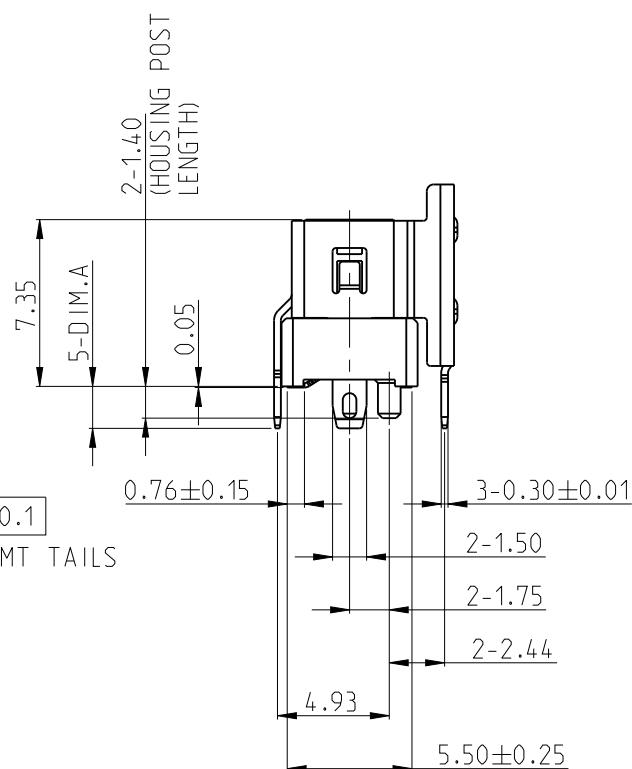
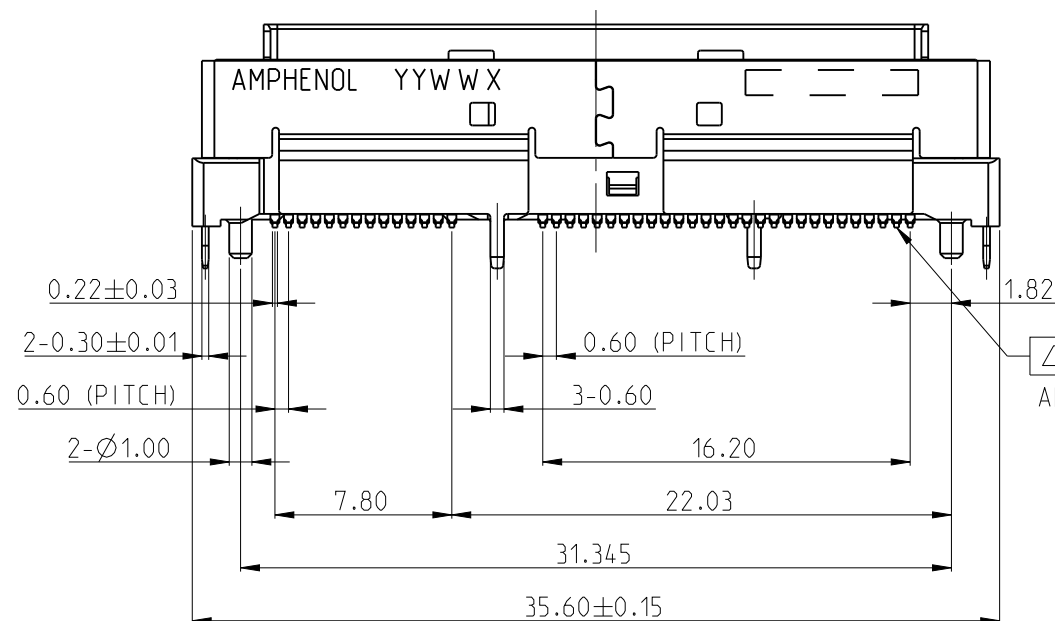
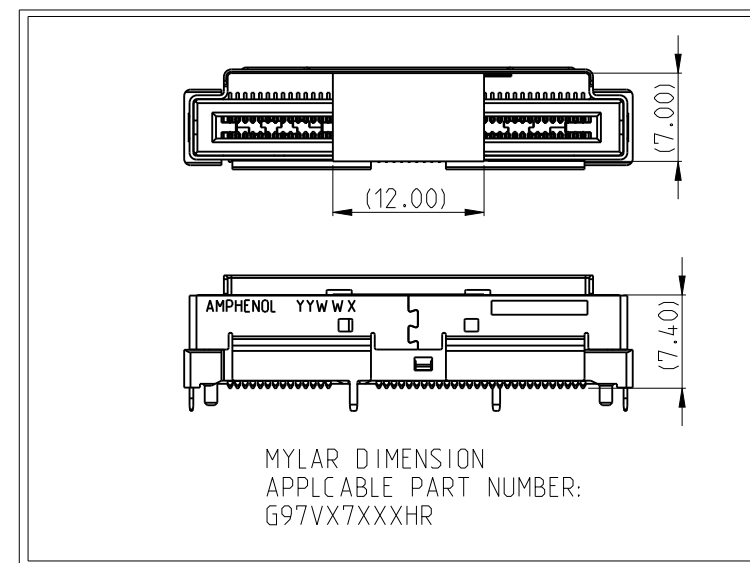
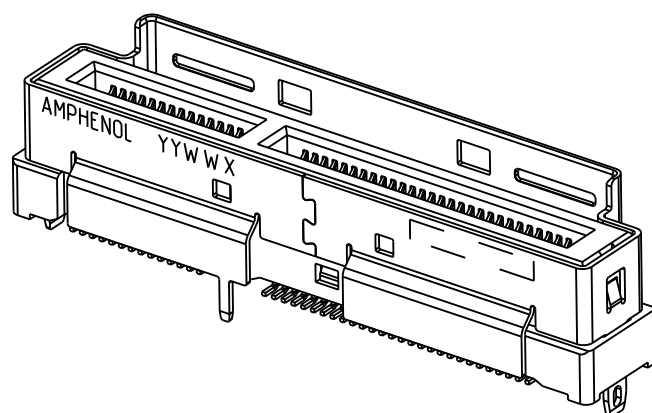
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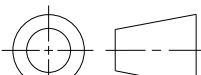


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C	NE-24244	ADDED SHELL PIN LENGTH CODE 5 INFORMATION IN PCB LAYOUT	10/30/2024	JOAN LU



G97VX7XXXHR



TOLERANCE	DRAWN APPROVALS	DATE	TITLE MINI COOL EDGE IO INTEGRATED CONNECTOR 0.6 PITCH. VERTICAL FOR PCIE. SMT TYPE			Amphenol® Amphenol Corporation Amphenol Taiwan Corporation		
X. X.X ±0.30 X.XX ±0.20 X.XXX ±0.10	DESIGNED JOAN LU	2024-10-30				PART No. G97VXXXXXXHR		
	CHECKED Sondra Sang	2024-11-04						
	APPROVED Hank Hsu	2024-11-04						
ANGULAR ±2°	DWG TYPE CUST DWG	PROJECT CODE T735	UNIT mm	SHEET 4 OF 12	REV. C			
UNLESS OTHERWISE SPECIFIED								

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RECOMMENDED PCB LAYOUT
(GENERAL TOLERANCES :+/-0.05)

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C	NE-24244	ADDED SHELL PIN LENGTH CODE 5 INFORMATION IN PCB LAYOUT	10/30/2024	JOAN LU

A

B

C

D

E

F

A

B

C

D

E

F

PART NUMBER	POS. (N)	DIM. D	DIM. E	DIM. F	DIM. G
G97VX1XXXHR	38	10.80	13.50	14.55	13.55
G97VX5XXXHR	50	14.40	17.10	18.15	17.15
G97VX2XXXHR	74	21.60	24.30	25.35	24.35

PART NUMBER (APPLY TO 38P/74P/50P)	DIM. U
G97VXXX1XHR	0.8
G97VXXX2XHR	
G97VXXX3XHR	
G97VXXX5XHR	
G97VXXX4XHR	0.95

PART NUMBER	POS. (N)	DIM. D1	DIM. D2	DIM. E	DIM. F	DIM. G	DIM. H1	DIM. H2
G97VX4XXXHR	124	21.60	14.40	40.50	42.15	41.15	18.90	4.50
G97VX6XXXHR	148	21.60	21.60	47.70	49.35	48.35	22.50	0.90

PART NUMBER	POS. (N)	DIM. S	DIM. T
G97VX4X1XHR	124	0.5	1.1
G97VX4X2XHR			
G97VX4X3XHR			
G97VX4X5XHR			
G97VX4X4XHR	148	0.65	1.3
G97VX6XXXHR			

TOLERANCE	DRAWN	APPROVALS	DATE	TITLE MINI COOL EDGE 10 INTEGRATED CONNECTOR 0.6 PITCH. VERTICAL FOR PCIE. SMT TYPE		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 JOAN LU CHECKED Sondra Sang APPROVED Hank Hsu DWG TYPE CUST DWG		2024-10-30 2024-11-04 2024-11-04 PROJECT CODE T735					
					UNIT mm	SIZE A3	PART No. G97VXXXXXXHR	
					SCALE NA	SHEET 5 OF 12	DWG No. G97VXXXXXXHR	REV. C

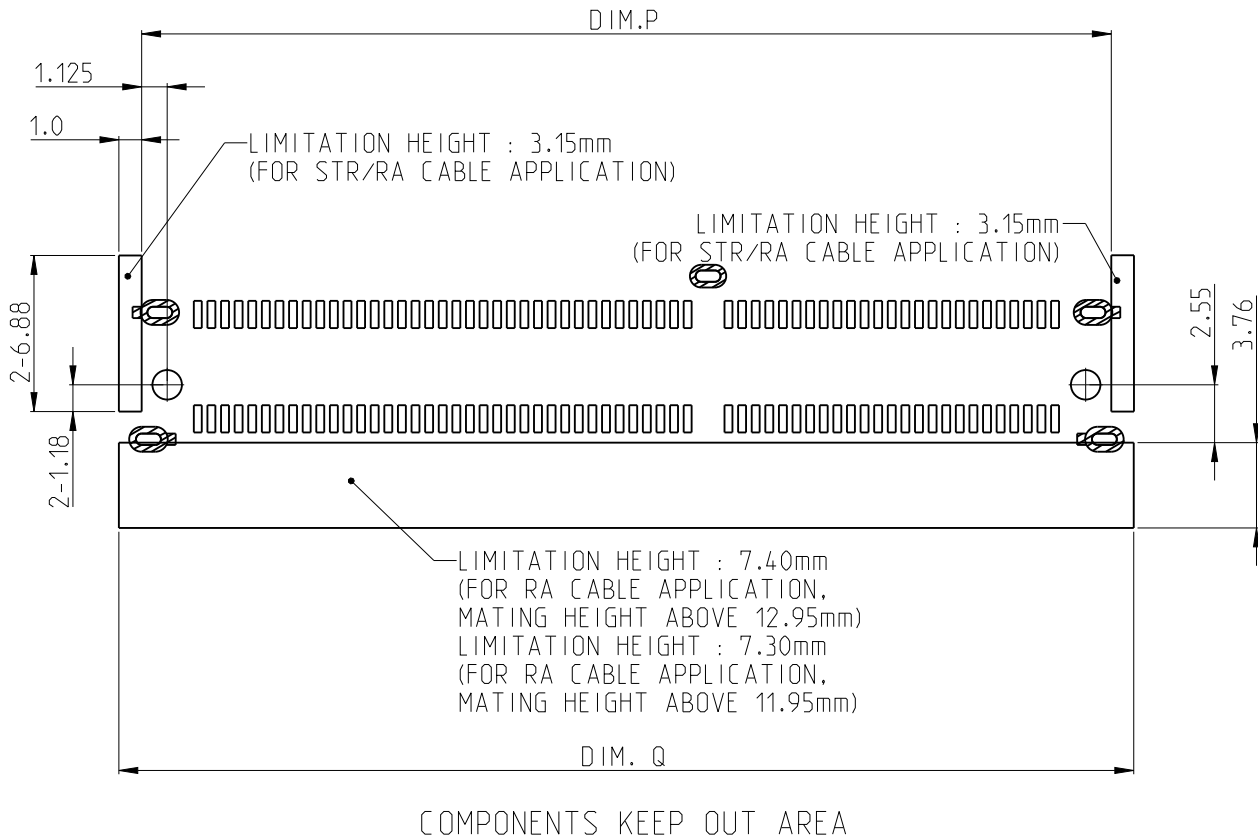
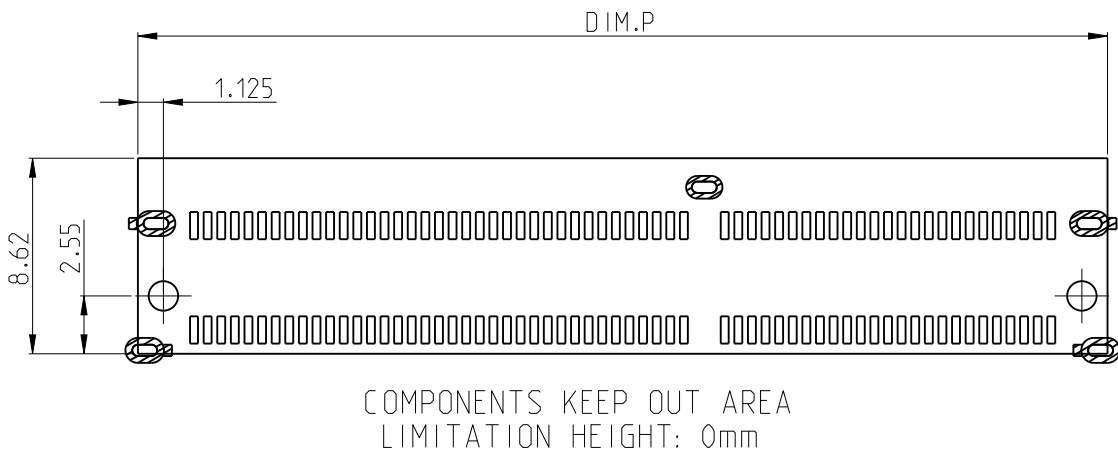
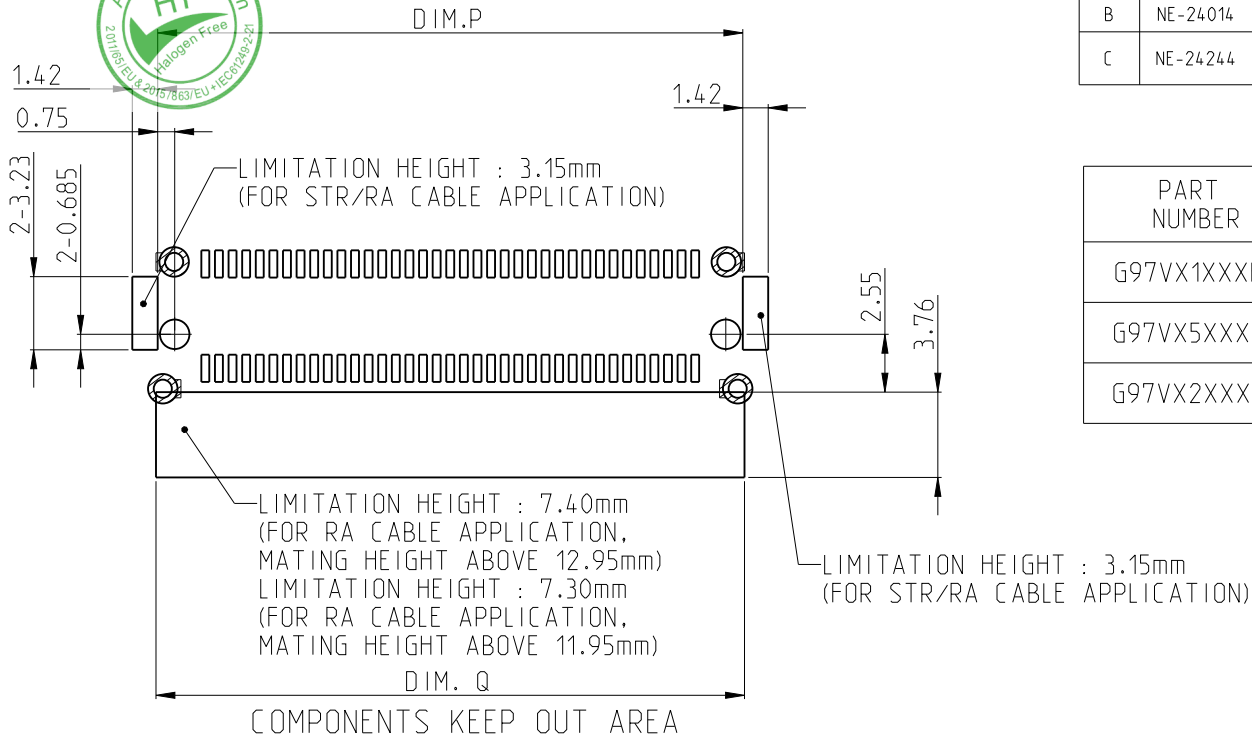
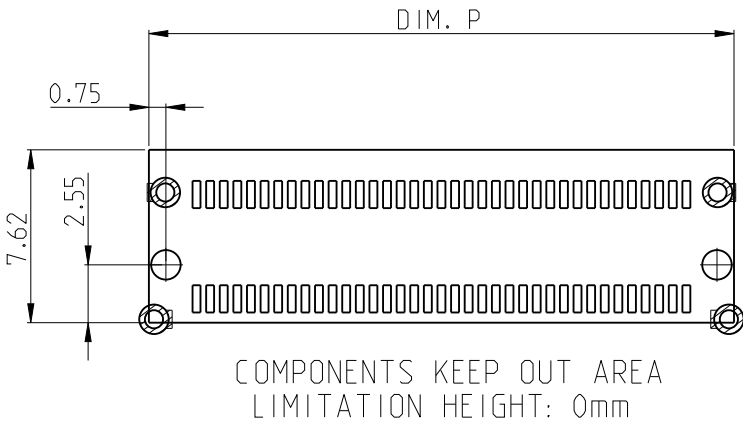
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PART NUMBER	POS. (N)	DIM. P	DIM. Q
G97VX1XXXHR	38	15.00	15.15
G97VX5XXXHR	50	18.60	18.75
G97VX2XXXHR	74	25.80	25.95



PART NUMBER	POS. (N)	DIM. P	DIM.Q
G97VX4XXXHR	124	42.75	44.75
G97VX6XXXHR	148	49.95	51.95

TOLERANCE	DRAWN	APPROVALS	DATE	TITLE MINI COOL EDGE IO INTEGRATED CONNECTOR 0.6 PITCH. VERTICAL FOR PCIE. SMT TYPE		Amphenol® Amphenol Corporation Amphenol Taiwan Corporation		
X. X.X ±0.30 X.XX ±0.20 X.XXX ±0.10	DESIGNED	JOAN LU	2024-10-30					
ANGULAR ±2°	CHECKED	Sondra Sang	2024-11-04		UNIT mm	SIZE A3	PART No. G97VXXXXXHR	
UNLESS OTHERWISE SPECIFIED	DWG TYPE	Hank Hsu	2024-11-04				DWG No. G97VXXXXXHR	REV. C
		CUST DWG	PROJECT CODE T735	SCALE NA	SHEET 6 OF 12			

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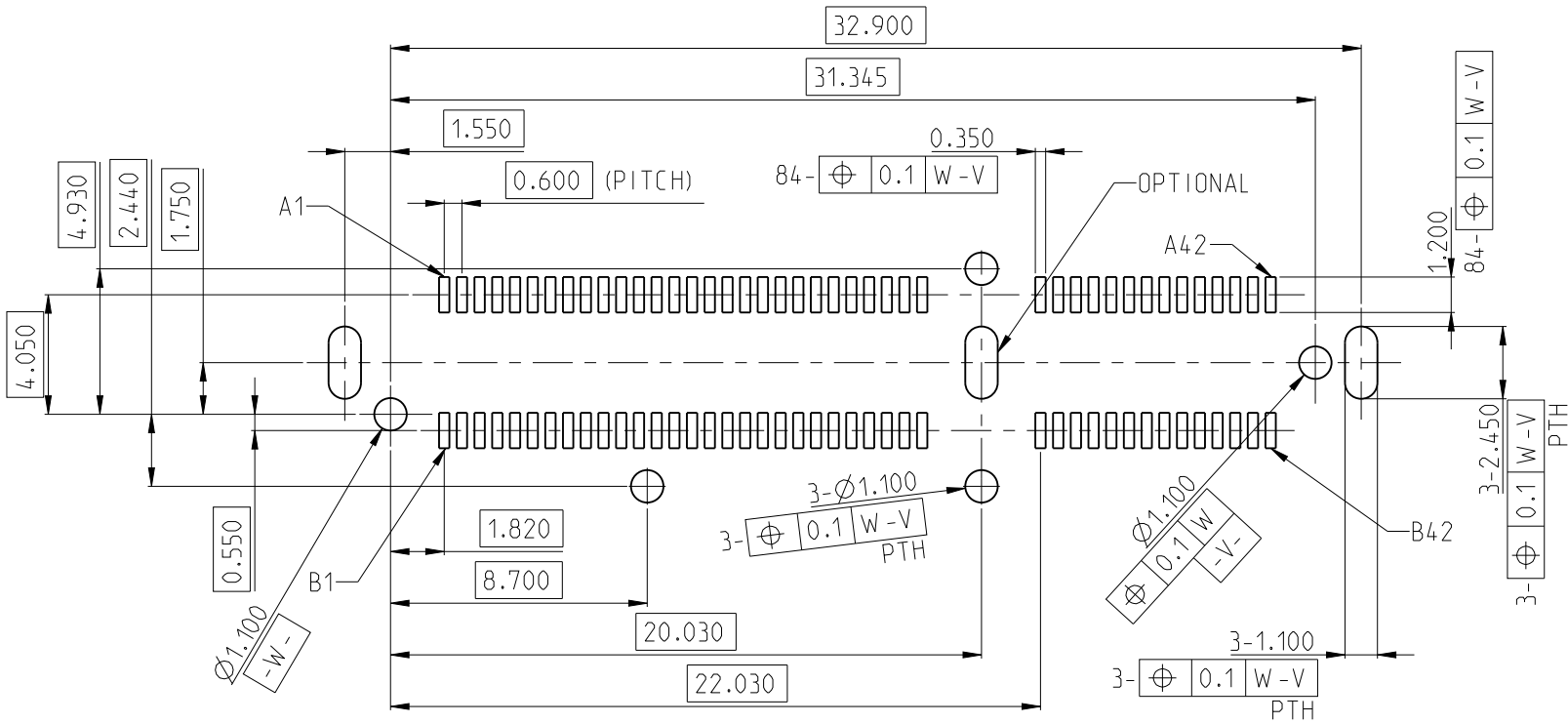
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RECOMMENDED PCB LAYOUT
(GENERAL TOLERANCES :+/-0.05)

G97VX7XXXHR



RECOMMENDED PCB LAYOUT
(GENERAL TOLERANCES :+/-0.05)

TOLERANCE	DRAWN	APPROVALS	DATE	TITLE		Amphenol®			
X.	DESIGNED	JOAN LU	2024-10-30	MINI COOL EDGE 10 INTEGRATED CONNECTOR 0.6 PITCH. VERTICAL FOR PCIE. SMT TYPE		Amphenol Corporation Amphenol Taiwan Corporation			
X.X ±0.30	CHECKED	Sondra Sang	2024-11-04						
X.XX ±0.20	APPROVED	Hank Hsu	2024-11-04			PART No. G97VXXXXXHR			
X.XXX ±0.10	DWG TYPE	CUST DWG	PROJECT CODE			UNIT	SIZE	DWG No. G97VXXXXXHR	
ANGULAR ±2°			T735			mm	A3		
UNLESS OTHERWISE SPECIFIED						SCALE	SHEET	REV.	
						NA	7 OF 12	C	

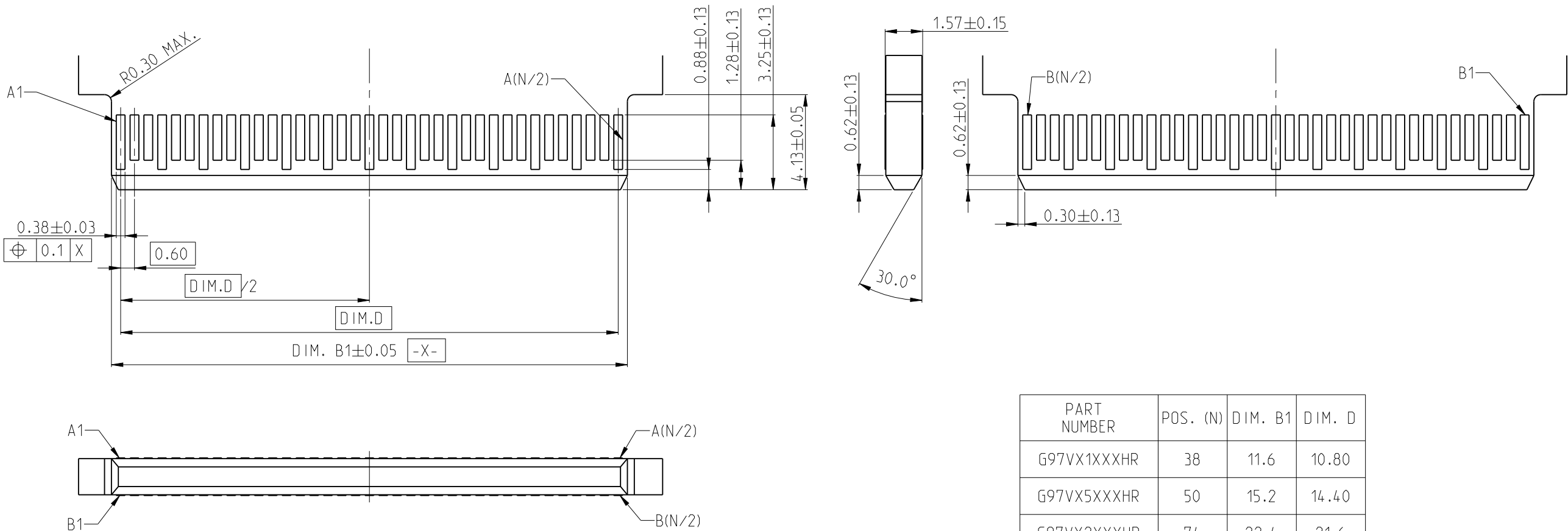
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The marking on this product doesn't contain environmental hazardous materials per directive 2011/65/EU & 2015/863/EU for RoHS compliant & per IEC 61249-2-21 for Halogen-Free compliant.



REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	BY
A	NE-22083	RELEASE TO PRODUCTION	11/01/2022	JOAN LU
B	NE-24014	DATE CODE ADDED ONE MORE CODE	01/18/2024	JOAN LU
C	NE-24244	ADDED SHELL PIN LENGTH CODE 5 INFORMATION IN PCB LAYOUT	10/30/2024	JOAN LU

RECOMMENDED AIC MATING CARD DIMENSIONS



PART NUMBER	POS. (N)	DIM. B1	DIM. D
G97VX1XXXHR	38	11.6	10.80
G97VX5XXXHR	50	15.2	14.40
G97VX2XXXHR	74	22.4	21.6

TOLERANCE	DRAWN	APPROVALS	DATE	TITLE MINI COOL EDGE 10 INTEGRATED CONNECTOR 0.6 PITCH. VERTICAL FOR PCIE. SMT TYPE		Amphenol® Amphenol Corporation Amphenol Taiwan Corporation		
X. X.X ±0.30 X.XX ±0.20 X.XXX ±0.10 ANGULAR ±2°	DESIGNED	JOAN LU	2024-10-30					
	CHECKED	Sondra Sang	2024-11-04					
	APPROVED	Hank Hsu	2024-11-04					
UNLESS OTHERWISE SPECIFIED	DWG TYPE	CUST DWG	PROJECT CODE T735		UNIT mm SCALE NA	SIZE A3 SHEET 8 OF 12	PART No. G97VXXXXXHR	REV. C

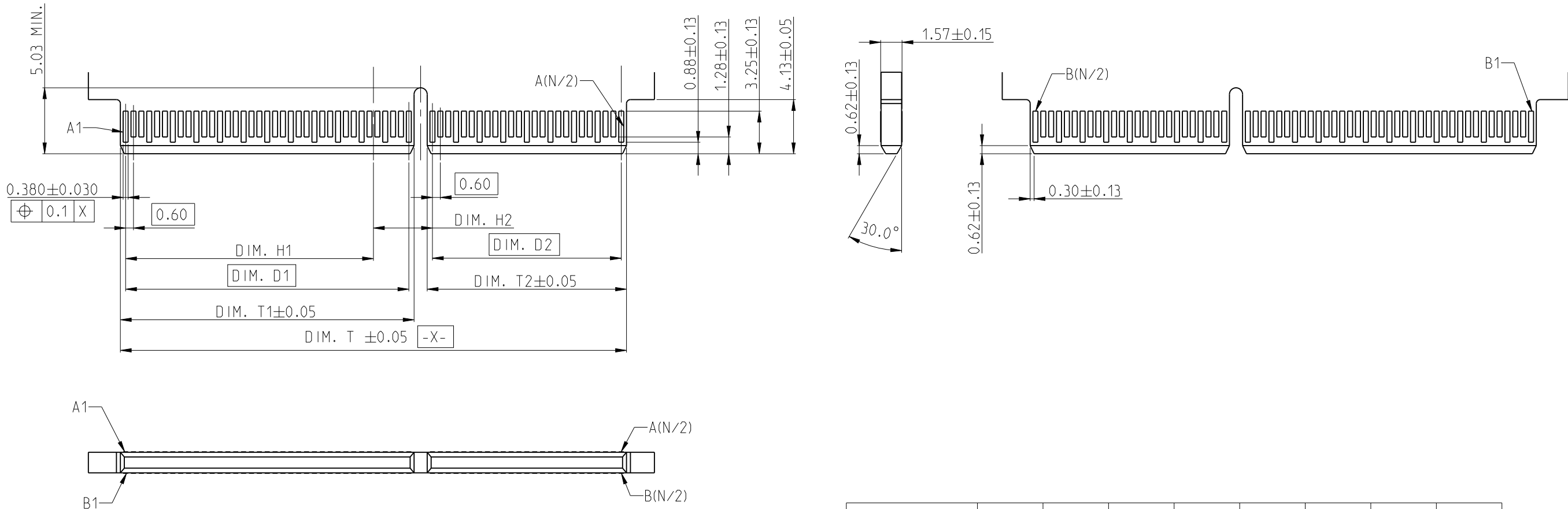
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REVISIONS				
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B	NE-24014	DATE CODE ADDED ONE MORE CODE	01/18/2024	JOAN LU
C	NE-24244	ADDED SHELL PIN LENGTH CODE 5 INFORMATION IN PCB LAYOUT	10/30/2024	JOAN LU

RECOMMENDED AIC MATING CARD DIMENSIONS



PART NUMBER	POS. (N)	DIM. D1	DIM. D2	DIM. H1	DIM. H2	DIM. T	DIM. T1	DIM. T2
G97VX4XXXHR	124	21.60	14.40	18.90	4.50	38.6	22.4	15.2
G97VX6XXXHR	148	21.60	21.60	22.50	0.90	45.8	22.4	22.4

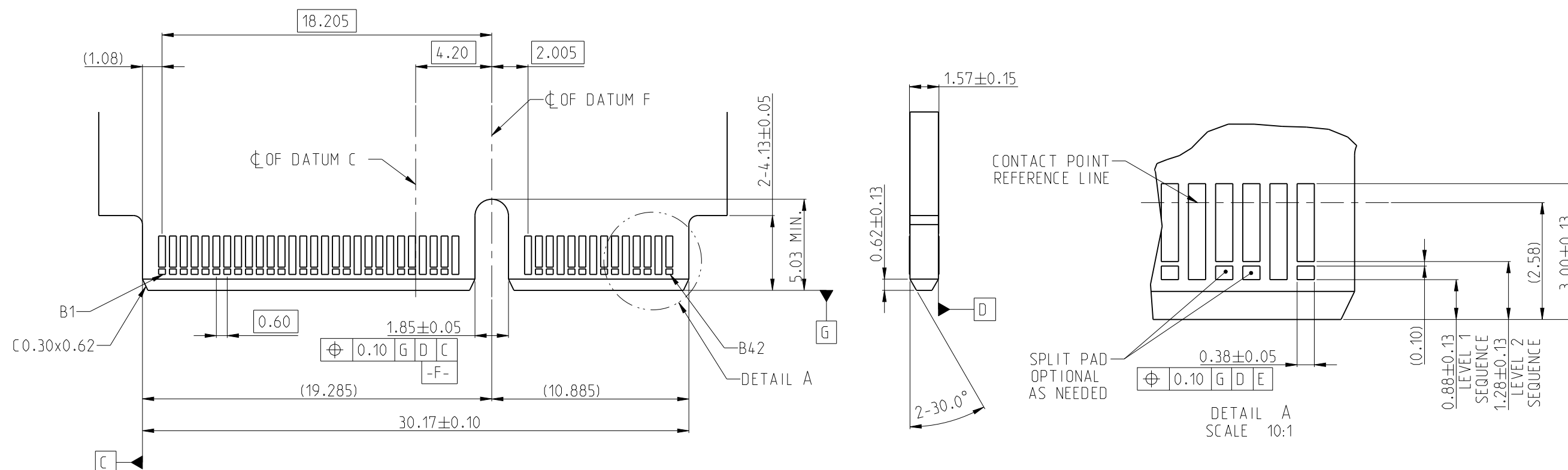
TOLERANCE	DRAWN	APPROVALS	DATE	TITLE MINI COOL EDGE IO INTEGRATED CONNECTOR 0.6 PITCH. VERTICAL FOR PCIE. SMT TYPE		Amphenol® Amphenol Corporation Amphenol Taiwan Corporation		
X. X.X ±0.30 X.XX ±0.20 X.XXX ±0.10	DESIGNED	JOAN LU	2024-10-30					
ANGULAR ±2°	CHECKED	Sondra Sang	2024-11-04		UNIT mm	SIZE A3	PART No. G97VXXXXXHR	
UNLESS OTHERWISE SPECIFIED	DWG TYPE	Hank Hsu	2024-11-04				DWG No. G97VXXXXXHR	REV. C
		CUST DWG	PROJECT CODE T735		SCALE NA	SHEET 9 OF 12		

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				
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C	NE-24244	ADDED SHELL PIN LENGTH CODE 5 INFORMATION IN PCB LAYOUT	10/30/2024	JOAN LU

G97VX7XXXHR



NOTE: POSITION A1 ON OPPOSITE SIDE OF CARD OF B1

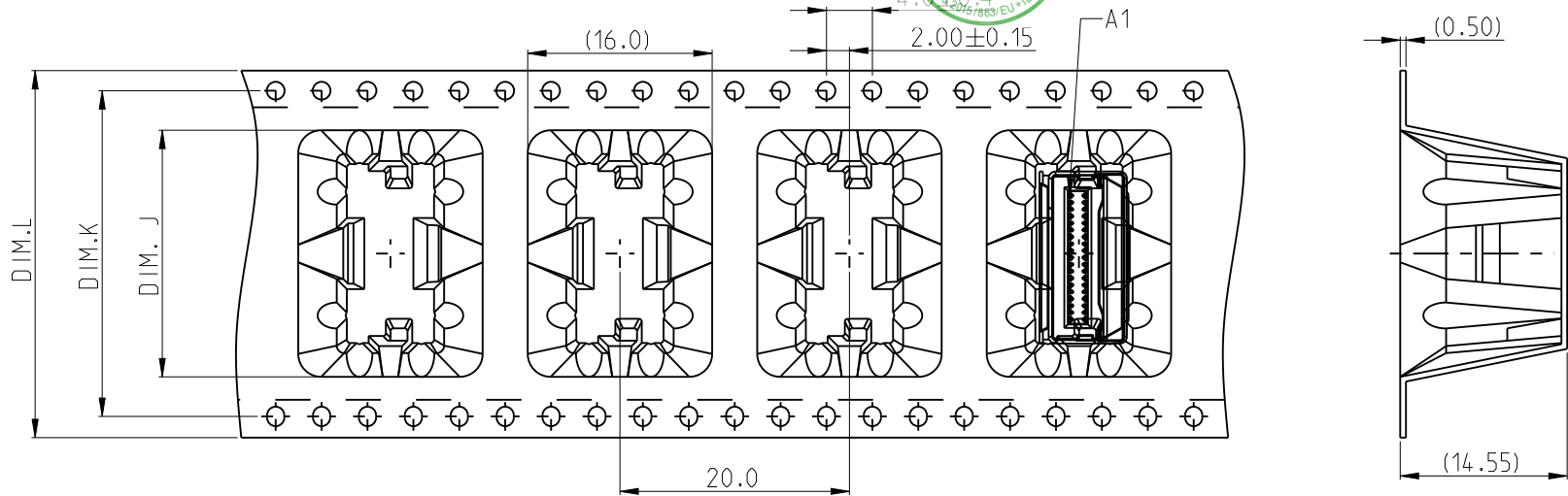
TOLERANCE		DRAWN APPROVALS	DATE	TITLE MINI COOL EDGE IO INTEGRATED CONNECTOR 0.6 PITCH. VERTICAL FOR PCIE. SMT TYPE			Amphenol® Amphenol Corporation Amphenol Taiwan Corporation		
X. X.X ±0.30 X.XX ±0.20 X.XXX ±0.10 ANGULAR ±2°		DESIGNED JOAN LU	2024-10-30						
		CHECKED Sondra Sang	2024-11-04						
		APPROVED Hank Hsu	2024-11-04						
UNLESS OTHERWISE SPECIFIED		DWG TYPE CUST DWG	PROJECT CODE T735		UNIT mm	SIZE A3	PART No. G97VXXXXXXHR		
					SCALE NA	SHEET 10 OF 12	DWG No. G97VXXXXXXHR	REV. C	

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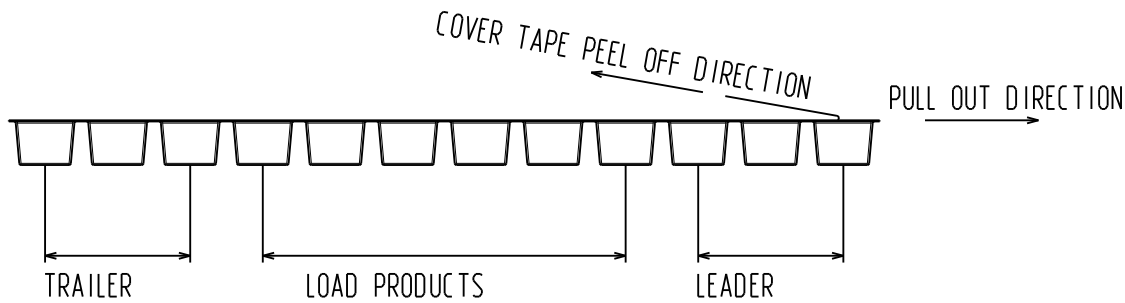
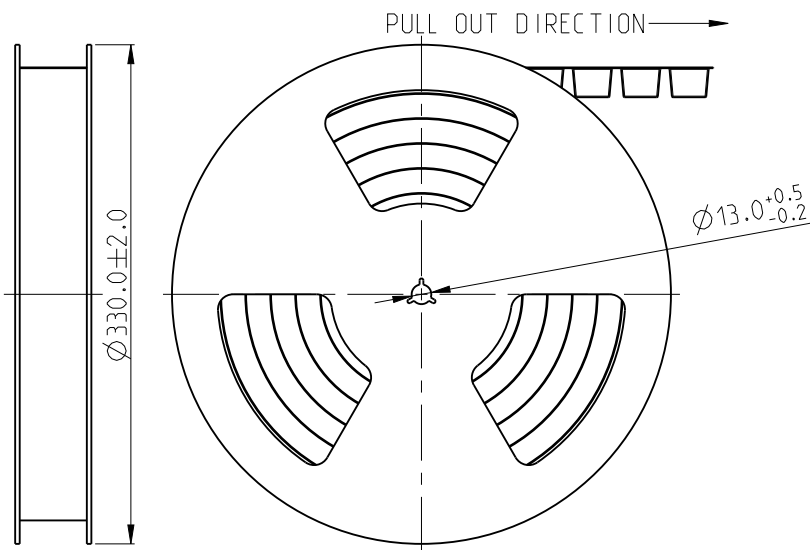
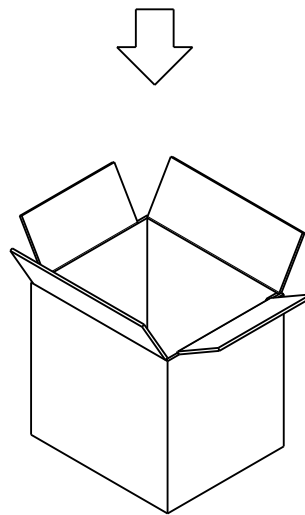
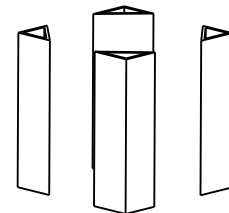
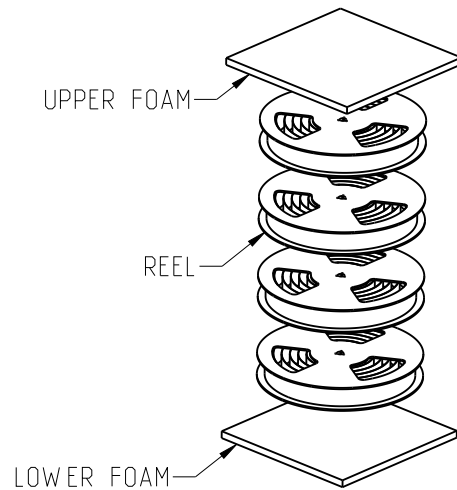
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REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	BY
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B	NE-24014	DATE CODE ADDED ONE MORE CODE	01/18/2024	JOAN LU
C	NE-24244	ADDED SHELL PIN LENGTH CODE 5 INFORMATION IN PCB LAYOUT	10/30/2024	JOAN LU



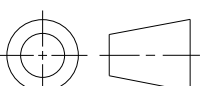
PART NUMBER	POS. (N)	DIM. J	DIM. K	DIM. L	REEL (Q'TY)	CARTON (PCS)	UPPER FOAM	LOWER FOAM
G97VX1XXXHR	38	(21.5)	28.4±0.1	32.0±0.3	7	1400	NO	YES
G97VX5XXXHR	50	(27.7)	40.4±0.1	44.0±0.3	5	1000	YES	YES
G97VX2XXXHR	74	(34.0)	52.4±0.1	56.0±0.3	4	800	YES	YES
G97VX4XXXHR	124	(39.5)	68.40±0.1	72.0±0.3	3	600	YES	YES
G97VX6XXXHR	148	(57.9)	68.40±0.1	72.0±0.3	3	600	YES	YES



NOTE 2:

1. CARTON SIZE
340L X 340W X265H
2. PREFER TO AMTA LABELING STANDARD.
3. CARTON CLOSURES MUST BE SEALED WITH TAPE.

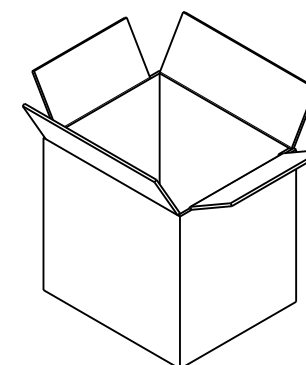
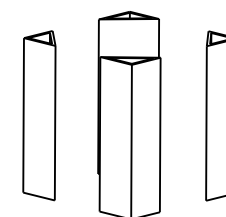
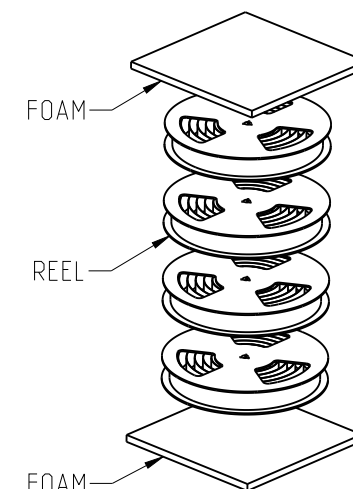
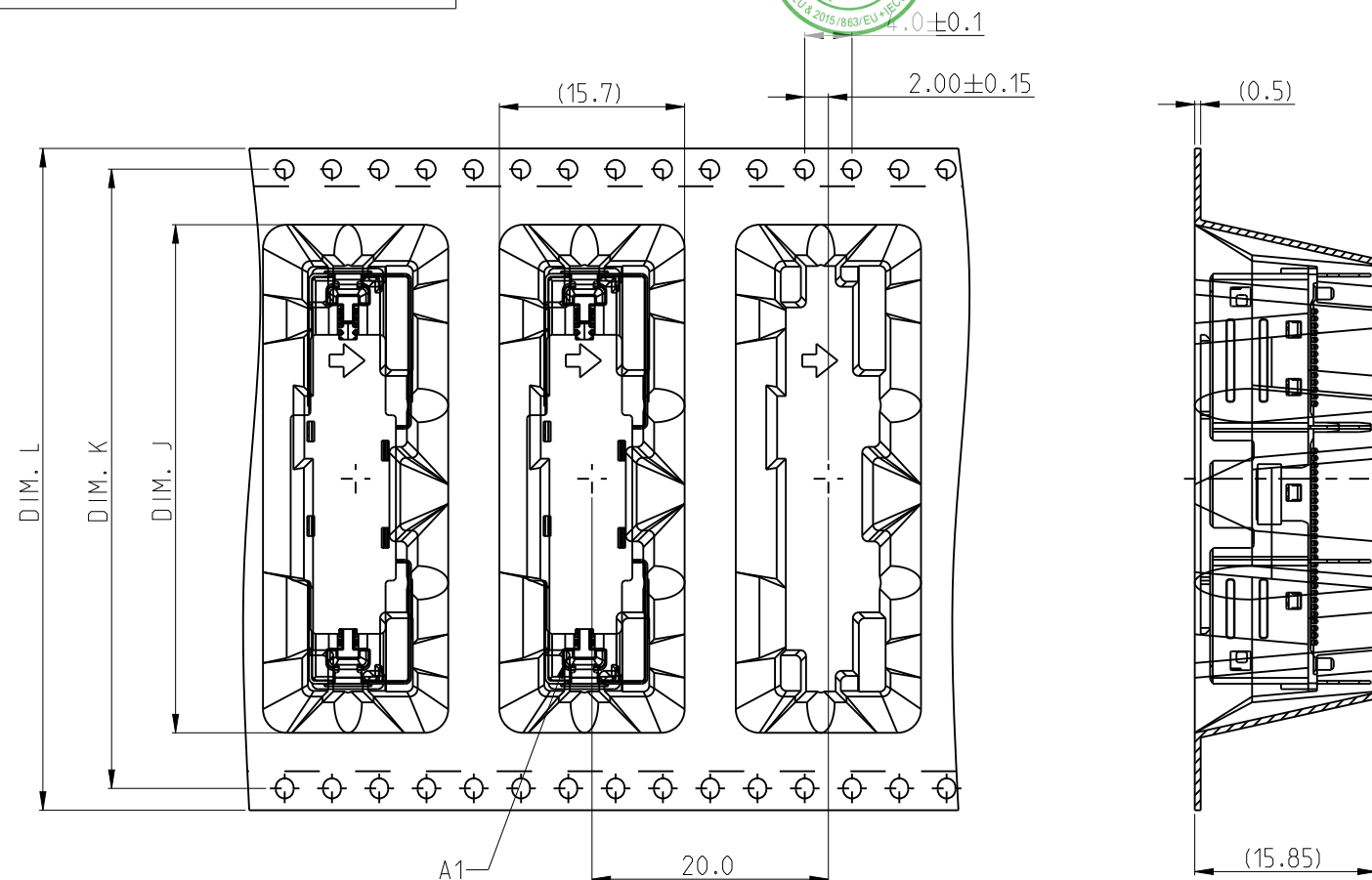
NOTE 1 :
1.MATERIAL:
CARRIER TAPE: POLYSTYRENE, BLACK
COVER TAPE: TRANSPARENT POLYSTYRENE
REEL: POLYSTYRENE, BLACK
2.ALL TAPE AND REEL SPECIFICATION FOLLOW EIA-481 STANDARD.
3.THIS PRODUCT DOESN'T CONTAIN ENVIROMENTAL HAZARDOUS MATERIALS PER DERCTIVE 2011/65/EU & 2015/863/EU FOR RoHS AND PER IEC 61249-2-21 FOR HALOGEN FREE

TOLERANCE	DRAWN	APPROVALS	DATE	TITLE MINI COOL EDGE 10 INTEGRATED CONNECTOR 0.6 PITCH. VERTICAL FOR PCIE. SMT TYPE			Amphenol® Amphenol Corporation Amphenol Taiwan Corporation			
X. X.X ±0.30 X.XX ±0.20 X.XXX ±0.10	DESIGNED	JOAN LU	2024-10-30							
	CHECKED	Sondra Sang	2024-11-04							
	APPROVED	Hank Hsu	2024-11-04							
ANGULAR ±2°					UNIT mm	SIZE A3	PART No.	G97VXXXXXHR		
UNLESS OTHERWISE SPECIFIED	DWG TYPE	CUST DWG	PROJECT CODE				SCALE	SHEET	DWG No.	REV.
			T735				NA	11 OF 12	G97VXXXXXHR	C

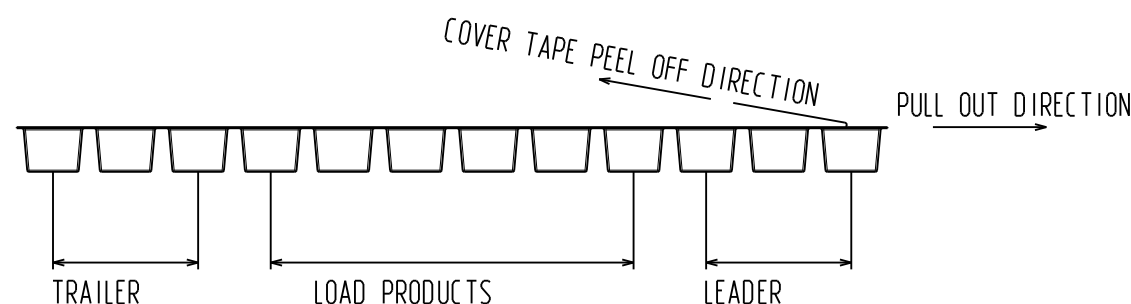
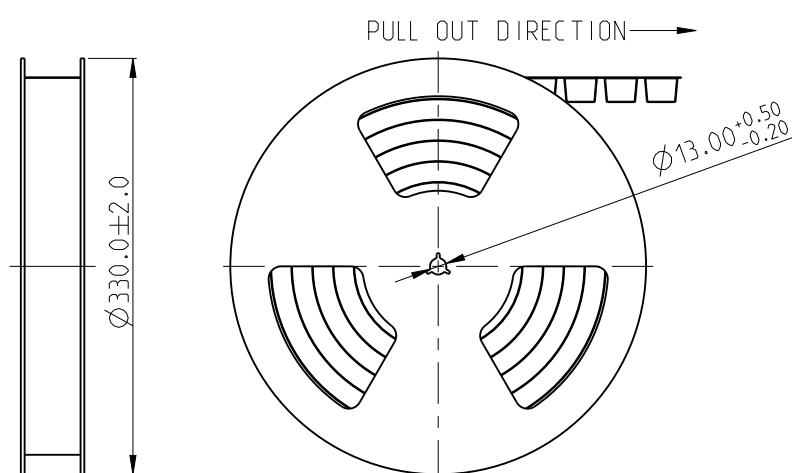
The marking on this product doesn't contain environmental hazardous materials per directive 2011/65/EU & 2015/863/EU for RoHS compliant & per IEC 61249-2-21 for Halogen-Free compliant.

Amphenol Taiwan
HF
Halogen Free
RoHS 2.0
EU & 2015/863/EU + JFCE16242-23
4.0±0.1

REVISIONS				
SYM	ECN No.	DESCRIPTION	DATE	BY
A	NE-22083	RELEASE TO PRODUCTION	11/01/2022	JOAN LU
B	NE-24014	DATE CODE ADDED ONE MORE CODE	01/18/2024	JOAN LU
C	NE-24244	ADDED SHELL PIN LENGTH CODE 5 INFORMATION IN PCB LAYOUT	10/30/2024	JOAN LU



PART NUMBER	POS. (N)	DIM. J	DIM. K	DIM. L	REEL (Q'TY)	CARTON (PCS)
G97VX7XXXHR	84	(43)	52.4±0.1	56.0±0.3	4	800



1. CARTON SIZE
340L X 340W X 240H
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 ENVIROMENTAL HAZARDOUS MATERIALS PER DERCTIVE 2011/65/EU & 2015/863/EU FOR RoHS AND PER IEC 61249-2-21 FOR HALOGEN FREE.

TOLERANCE		DRAWN APPROVALS	DATE	TITLE			Amphenol®	
X. X.X ±0.30 X.XX ±0.20 X.XXX ±0.10 ANGULAR ±2°		DESIGNED JOAN LU	2024-10-30	MINI COOL EDGE IO INTEGRATED CONNECTOR 0.6 PITCH. VERTICAL FOR PCIE. SMT TYPE			Amphenol Corporation Amphenol Taiwan Corporation	
		CHECKED Sondra Sang	2024-11-04					
		APPROVED Hank Hsu	2024-11-04					
UNLESS OTHERWISE SPECIFIED		DWG TYPE CUST DWG	PROJECT CODE T735		UNIT mm	SIZE A3	PART No. G97VXXXXXXHR	
					SCALE NA	SHEET 12 OF 12	DWG No. G97VXXXXXXHR	REV. C