

Amphenol
SS10

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C

B

A

Creo File:APH-SS10-A3C,REV B,2021-05-07

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PDS: Rev :B

STATUS:Released

Printed: Nov 29, 2021

4

revision history

rev ecn no description dr date

A CD2571 FIRST RELEASE RH 2021/04/26

B ELX-CD-43030-1 CHANGE AND ADD PIN ASSIGNMENT RH 2021/11/09

ME1016810201045 GXT 0.38um

ME1016810201044 GXT 0.76um

ME1016810201043 GOLD FLASH

ME1016810201042 0.38um Au

ME1016810201041 0.76um Au

PART NUMBER PLATING SPEC

PART NUMBER LIST TABLE

NOTE:

1. MATERIAL:

HOUSING: HIGH TEMPERATURE THERMOPLASTIC BLACK UL94-V0.

CONTACT: COPPER ALLOY

BOARD LOCK: COPPER ALLOY

2. PLATING:

CONTACT: MATING AREA: SEE PART NUMBER TABLE LIST

OVER 1.27um MIN NICKEL UNDERPLATED

SOLDER AREA: 1.27um MIN MATT TIN OVER 1.27um MIN

NICKEL UNDERPLATED

BOARD LOCK: 1.27um MIN MATT TIN OVER 1.27um MIN NICKEL UNDERPLATED

3. ELECTRICAL PERFORMANCE:

RATED CURRENT: 1.1A/PIN UP TO 12PINS

LLCR: DELTA 15mΩ MAX

INSULATION RESISTANCE: 1000MΩ MIN.

4. MECHANICAL PERFORMANCE

MATING FORCE:92.4N MAX.

UNMATING FORCE:8.4N MIN

DURABILITY:200CYCLES

5. CONNECTOR PIN ASSIGNMENT REFER TO PAGE 2.

POSITIONS DESIGNATED AS "SIGNAL" ARE REQUIRED LOCATIONS FOR HIGH SPEED

DIFFERENTIAL PAIR SIGNALING;POSITIONS DESIGNATED AS "GROUND" ARE REQUIRED WHEN

SUPPORTING HIGH SPEED DIFFERENTIAL SIGNAL; POSITIONS DESIGNATED AS "OPTIONAL"

ARE REQUIRED LOCATIONS FOR POWER OR SIDE BAND.

7. CONNECTOR IS ROHS COMPLIANT.

8. ORDERING PART NUMBER SEE THE PART NUMBER TABLE LIST.

spec ref S-ME-004

dr Rocky Huang 2021/11/19

eng Rocky Huang 2021/11/25

r vwr Rocky Huang 2021/11/25

appr LY Yi 2021/11/26

tolerance std TOLERANCES UNLESS OTHERWISE SPECIFIED

surface linear 0.X ± 0.25

0.XX ± 0.15

0.XXX ± 0.05

angular 0° ± 5°

projection

MINI COOL EDGE CONNECTOR

R/A,H4.05,SMT,PCIe GEN 5

product family

sheet 1 of 4

Amphenol SS10

mm

scale 2:1

size A3

ecn no ELX-CD-43030-1

rel level Released

cat. no. C ME101681020104X

rev B

CONNECTOR PIN ASSIGNMENT

SIDE A		SIDE B	
OA1	OPTIONAL	OPTIONAL	OB1
OA2	OPTIONAL	OPTIONAL	OB2
OA3	OPTIONAL	OPTIONAL	OB3
OA4	OPTIONAL	OPTIONAL	OB4
OA5	OPTIONAL	OPTIONAL	OB5
OA6	OPTIONAL	OPTIONAL	OB6
OA7	OPTIONAL	OPTIONAL	OB7
OA8	OPTIONAL	OPTIONAL	OB8
OA9	OPTIONAL	OPTIONAL	OB9
OA10	OPTIONAL	OPTIONAL	OB10
OA11	OPTIONAL	OPTIONAL	OB11
OA12	OPTIONAL	OPTIONAL	OB12
OA13	OPTIONAL	OPTIONAL	OB13
OA14	OPTIONAL	OPTIONAL	OB14

MECHANICAL KEY

A1	OPTIONAL	OPTIONAL	B1
A2	OPTIONAL	OPTIONAL	B2
A3	OPTIONAL	OPTIONAL	B3
A4	OPTIONAL	OPTIONAL	B4
A5	OPTIONAL	OPTIONAL	B5
A6	OPTIONAL	OPTIONAL	B6
A7	OPTIONAL	OPTIONAL	B7
A8	OPTIONAL	OPTIONAL	B8
A9	OPTIONAL	OPTIONAL	B9
A10	OPTIONAL	OPTIONAL	B10
A11	OPTIONAL	OPTIONAL	B11
A12	OPTIONAL	OPTIONAL	B12
A13	OPTIONAL	OPTIONAL	B13
A14	OPTIONAL	OPTIONAL	B14
A15	OPTIONAL	OPTIONAL	B15

A16	GROUND	GROUND	B16
A17	SIGNAL	SIGNAL	B17
A18	SIGNAL	SIGNAL	B18
A19	GROUND	GROUND	B19
A20	SIGNAL	SIGNAL	B20
A21	SIGNAL	SIGNAL	B21
A22	GROUND	GROUND	B22
A23	SIGNAL	SIGNAL	B23
A24	SIGNAL	SIGNAL	B24
A25	GROUND	GROUND	B25
A26	SIGNAL	SIGNAL	B26
A27	SIGNAL	SIGNAL	B27
A28	GROUND	GROUND	B28

MECHANICAL KEY

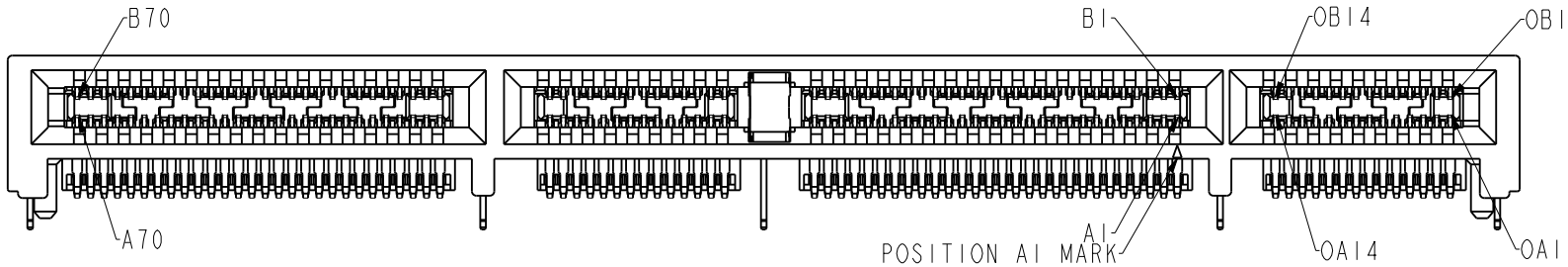
CONTINUED

SIDE A		SIDE B	
A29	GROUND	GROUND	B29
A30	SIGNAL	SIGNAL	B30
A31	SIGNAL	SIGNAL	B31
A32	GROUND	GROUND	B32
A33	SIGNAL	SIGNAL	B33
A34	SIGNAL	SIGNAL	B34
A35	GROUND	GROUND	B35
A36	SIGNAL	SIGNAL	B36
A37	SIGNAL	SIGNAL	B37
A38	GROUND	GROUND	B38
A39	SIGNAL	SIGNAL	B39
A40	SIGNAL	SIGNAL	B40
A41	GROUND	GROUND	B41
A42	OPTIONAL	OPTIONAL	B42

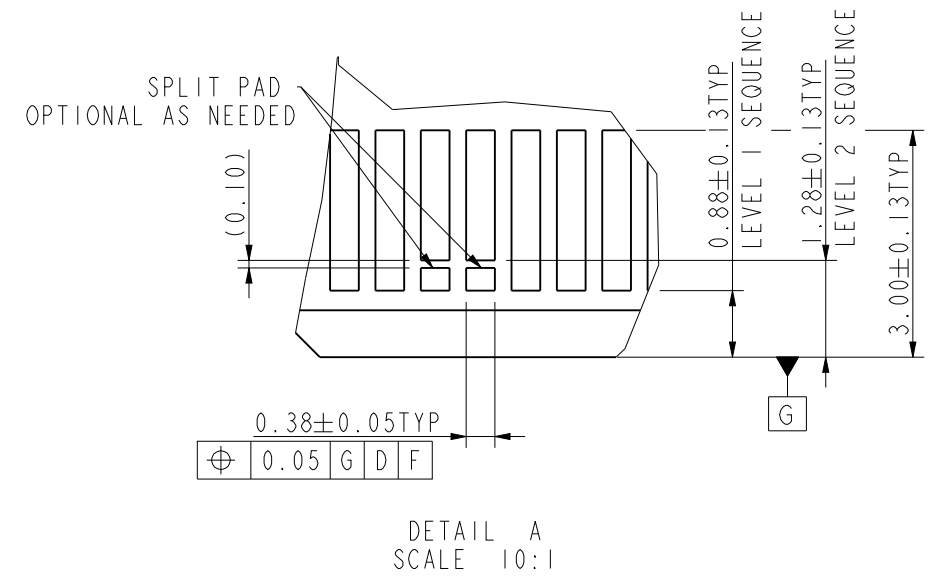
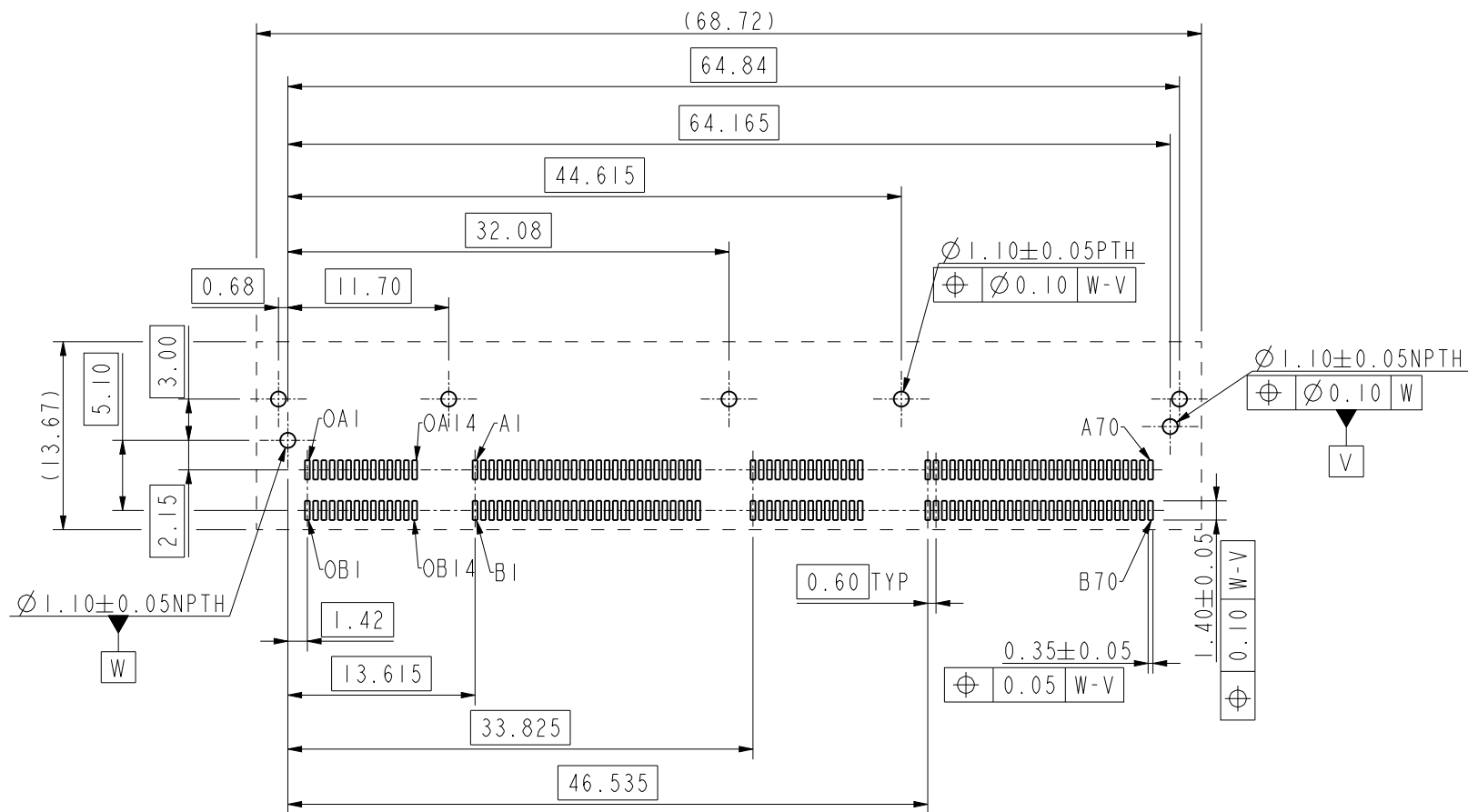
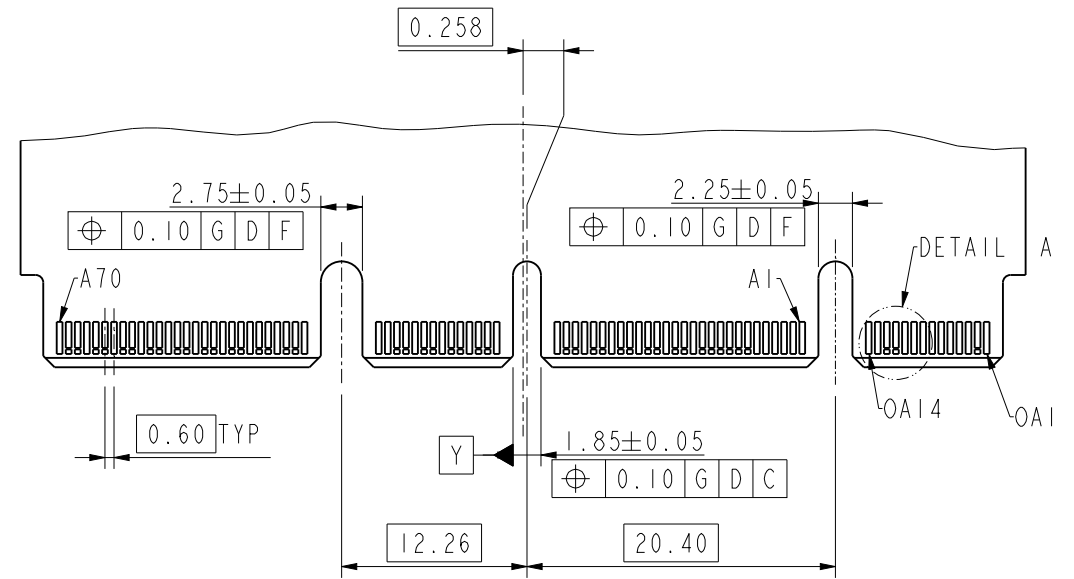
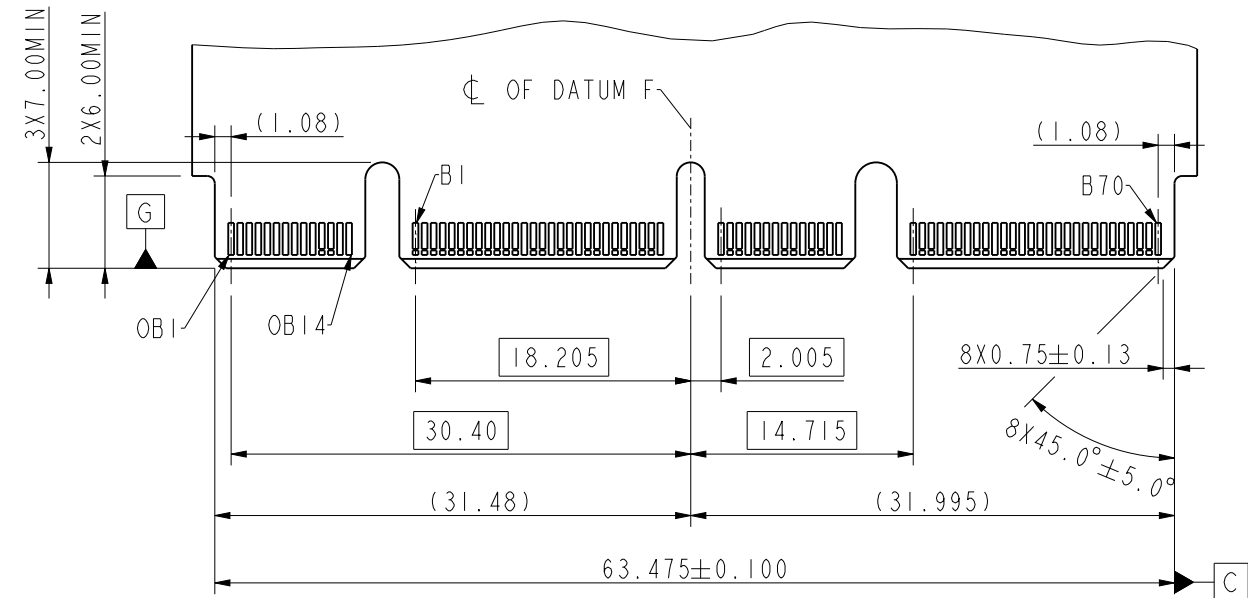
MECHANICAL KEY

A43	GROUND	GROUND	B43
A44	SIGNAL	SIGNAL	B44
A45	SIGNAL	SIGNAL	B45
A46	GROUND	GROUND	B46
A47	SIGNAL	SIGNAL	B47
A48	SIGNAL	SIGNAL	B48
A49	GROUND	GROUND	B49
A50	SIGNAL	SIGNAL	B50
A51	SIGNAL	SIGNAL	B51
A52	GROUND	GROUND	B52
A53	SIGNAL	SIGNAL	B53
A54	SIGNAL	SIGNAL	B54
A55	GROUND	GROUND	B55
A56	SIGNAL	SIGNAL	B56
A57	SIGNAL	SIGNAL	B57

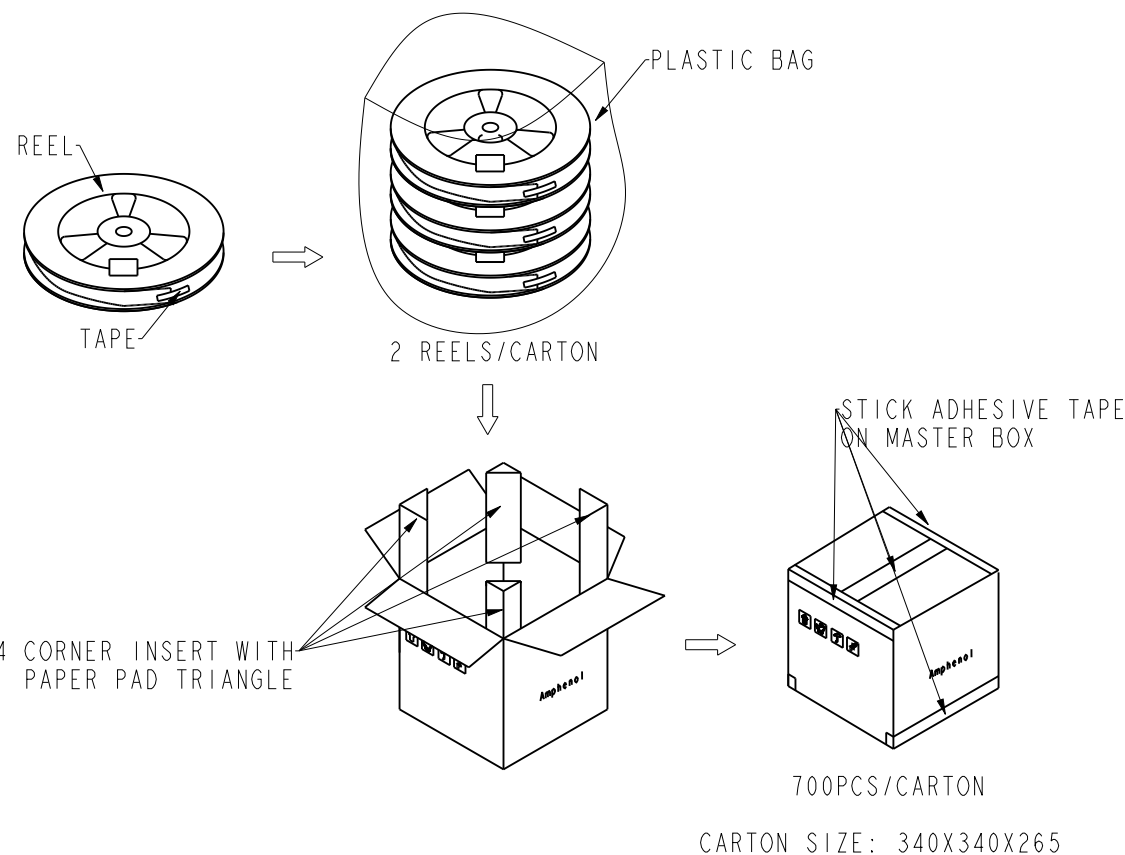
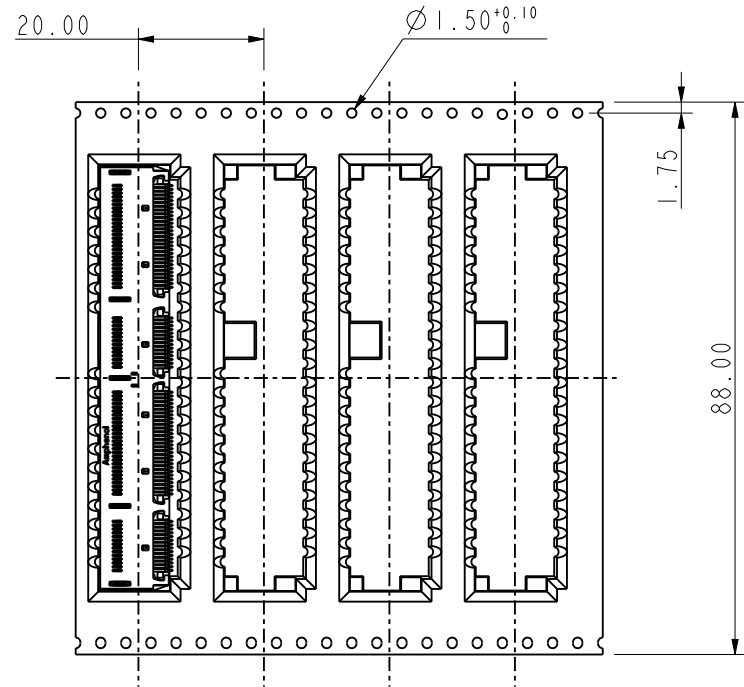
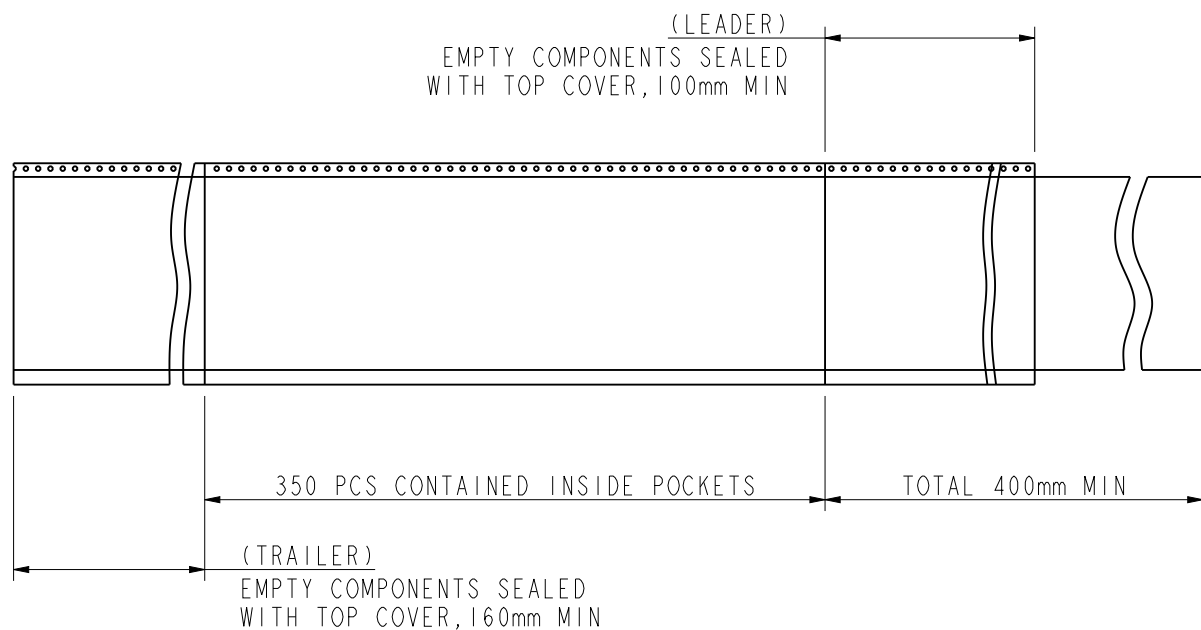
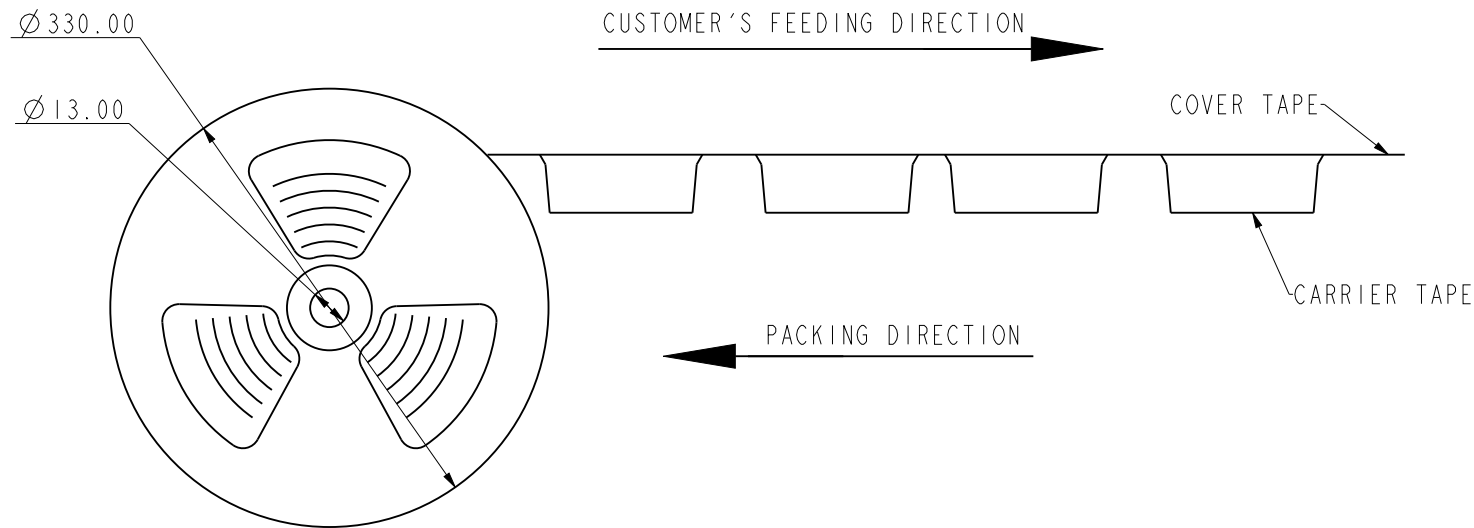
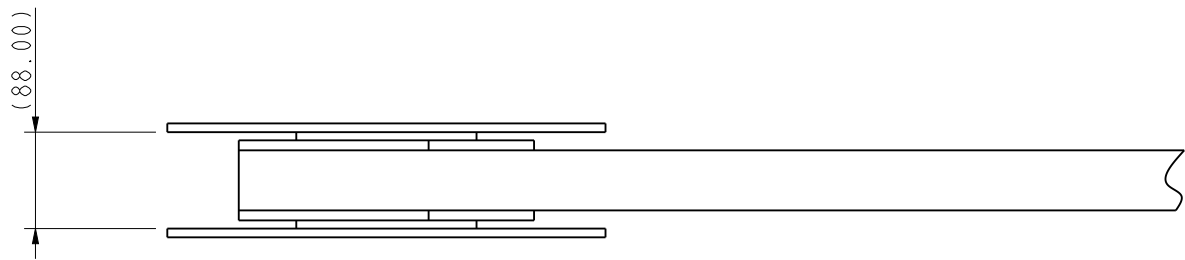
A58	GROUND	GROUND	B58
A59	SIGNAL	SIGNAL	B59
A60	SIGNAL	SIGNAL	B60
A61	GROUND	GROUND	B61
A62	SIGNAL	SIGNAL	B62
A63	SIGNAL	SIGNAL	B63
A64	GROUND	GROUND	B64
A65	SIGNAL	SIGNAL	B65
A66	SIGNAL	SIGNAL	B66
A67	GROUND	GROUND	B67
A68	OPTIONAL	OPTIONAL	B68
A69	OPTIONAL	OPTIONAL	B69
A70	OPTIONAL	OPTIONAL	B70



spec ref				S-ME-004			dr			Rocky Huang			2021/11/19			Amphenol SS10					mm		scale		size																		
tolerance std				TOLERANCES UNLESS OTHERWISE SPECIFIED						eng			Rocky Huang								2021/11/25			ecn no						ELX-CD-43030-1		A3											
										r vwr			Rocky Huang								2021/11/25			amphenol-icc.com						rel level				Released									
appr			LY Yi			2021/11/26																																					
surface		✓		linear		0.X		± 0.25		projection		title		MINI COOL EDGE CONNECTOR										dwg no		C ME101681020104X										rev							
						0.XX		± 0.15																																			
						0.XXX		± 0.05																																			
						angular		0°																														± 5°					
												R/A, H4.05, SMT, PCIe GEN 5														cat. no.																	
												product family																						sheet 2 of 4									



spec ref		S-ME-004			dr		Rocky Huang		2021/11/19		Amphenol SS10				mm		scale		size			
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Rocky Huang		2021/11/25								ecn no		ELX-CD-43030-1		A3	
					rvwr		Rocky Huang		2021/11/25				rel level		Released							
					appr		LY Yi		2021/11/26		amphenol-icc.com											
surface		linear	0.X		± 0.25		projection		title		MINI COOL EDGE CONNECTOR				dwg no		C ME101681020104X				rev	
			0.XX		± 0.15																	
			0.XXX		± 0.05										cat. no.							
		angular		0°		± 5°		product family											sheet 3 of 4			
										R/A, H4.05, SMT, PCIe GEN 5								B				



spec ref		S-ME-004			dr		Rocky Huang		2021/11/19		Amphenol SS10				mm		scale		size	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng		Rocky Huang		2021/11/25		ecn no							ELX-CD-43030-1		2:1	
				r vwr		Rocky Huang		2021/11/25		amphenol-icc.com				rel level Released						
				appr		LY Yi		2021/11/26												
surface	✓	linear	0.X		± 0.25		projection		title	MINI COOL EDGE CONNECTOR				dwg no	C ME101681020104X				rev	
			0.XX		± 0.15															
			0.XXX		± 0.05					R/A, H4.05, SMT, PCIe GEN 5				cat. no.						
		angular	0°		± 5°													product family		