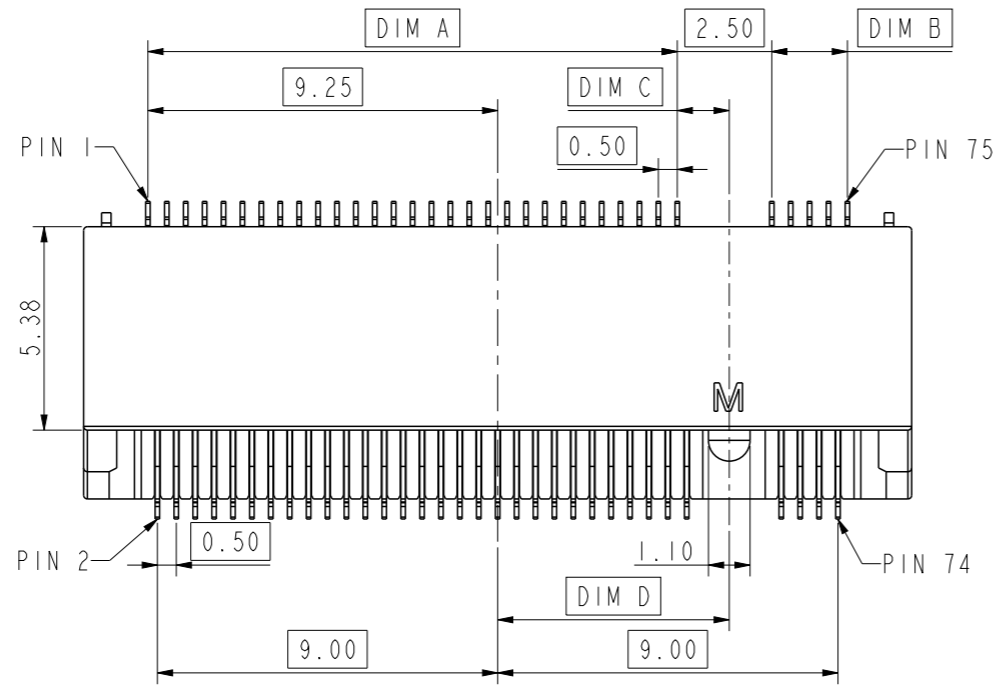
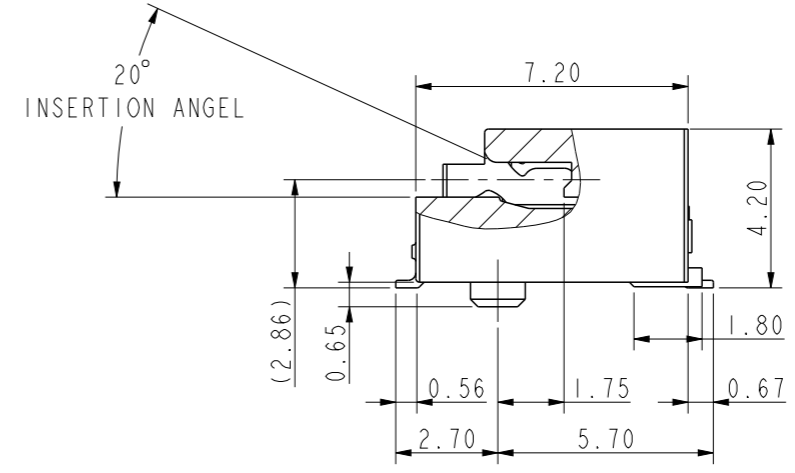
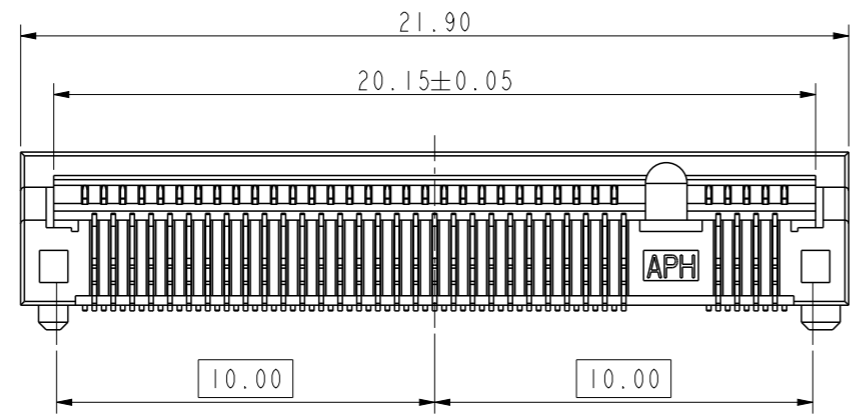


revision history				
rev	ecn no	description	dr	date
A	ELX-CD-F2906-1	FIRST RELEASE	YX	2021/11/19



- NOTES:
- MATERIAL:
 PLASTIC: LCP, UL 94V-0, BLACK
 CONTACT: COPPER ALLOY
 BOARD LOCK: COPPER ALLOY
 - FINISHED:
 CONTACT AREA: 0.76um MIN Au PLATED
 SOLDER AREA: GOLD FLASH
 BOARD LOCK: 2.54um MIN MATTE PURE TIN PLATED
 UNDERPLATED: 1.27um MIN Ni PLATED
 - ELECTRICAL PERFORMANCE:
 INSULATION RESISTANCE: 500MΩ MIN
 OPERATION TEMPERATURE: -40°C TO +85°C
 - DIMENSIONING SHALL BE INTERPRETED PER ASME Y14.5M 1994
 - MATERIAL SHOULD BE FULFILLED AMPHENOL SPEC# S-SN-002 FOR HALOGEN FREE PRODUCTS, ALSO NEED TO MEET # S-SN-004
 - CONNECTOR PIN ASSIGNMENT REFER TO PAGE 2
 - POSITIONS DESIGNATED AS "SIGNAL" ARE REQUIRED LOCATIONS FOR HIGH SPEED DIFFERENTIAL PAIR SIGNALING; POSITIONS DESIGNATED AS "GND" ARE REQUIRED WHEN SUPPORTING HIGH SPEED DIFFERENTIAL SIGNAL; POSITIONS DESIGNATED AS "OPTINAL" ARE REQUIRED LOCATIONS FOLLOWING M.2 INDUSTRY SPEC.
 - ORDER P/N: MDT420X01501

KEY ID	REMARK
B	NOT TOOLED
E	NOT TOOLED
M	TOOLED



KEY ID	DIM.A	DIM B	DIM C	DIM D	DIM E	REMARK
M	14.0	2.0	1.375	6.125	1.50	
E	5.5	10.5	1.125	-2.625	10.50	
B	2.5	13.5	1.125	-5.625	13.50	

spec ref	dr	Yunx Liu	2021/11/09	Amphenol	scale	5:1	size	A3
tolerance std	eng	Yunx Liu	2021/11/19		ecn no	-	rel level	Released
TOLERANCES UNLESS OTHERWISE SPECIFIED	r vwr	Johnny Wang	2021/11/19		amphenol-icc.com			
	appr	LY Yi	2021/11/19					
surface	linear	0.X	±0.50	projection	M.2 Gen5 CONNECTOR		cat. no.	CMDT420X01501
		0.XX	±0.25				rev	A
		0.XXX	±0.15				product family	sheet 1 of 4
	angular	0°	±5°					

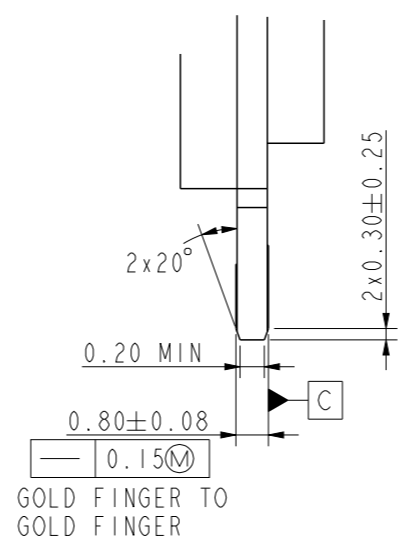
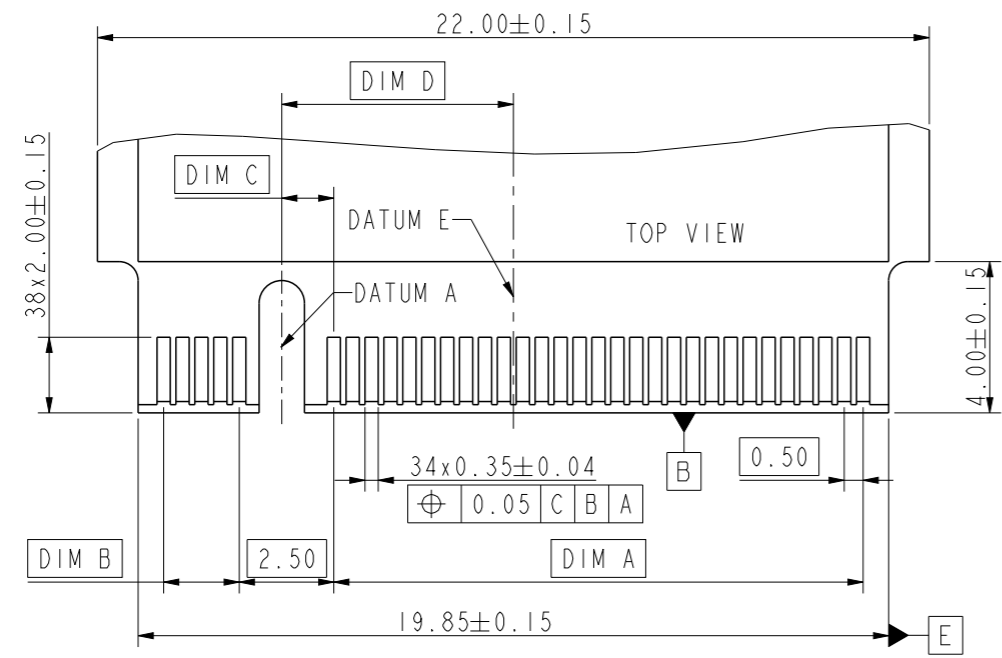
CONNECTOR PIN ASSIGNMENT

PIN			PIN
74	OPTIONAL	OPTIONAL	75
72	OPTIONAL	OPTIONAL	73
70	OPTIONAL	OPTIONAL	71
68	OPTIONAL	OPTIONAL	69
66	OPTIONAL	OPTIONAL	67
64	OPTIONAL	OPTIONAL	65
62	OPTIONAL	OPTIONAL	63
60	OPTIONAL	OPTIONAL	61
58	OPTIONAL	OPTIONAL	59
56	OPTIONAL	GND	57
54	OPTIONAL	SIGNAL	55
52	OPTIONAL	SIGNAL	53
50	OPTIONAL	GND	51
48	OPTIONAL	SIGNAL	49
46	OPTIONAL	SIGNAL	47
44	OPTIONAL	GND	45
42	OPTIONAL	SIGNAL	43
40	OPTIONAL	SIGNAL	41
38	OPTIONAL	GND	39
36	OPTIONAL	SIGNAL	37
34	OPTIONAL	SIGNAL	35
32	OPTIONAL	GND	33
30	OPTIONAL	SIGNAL	31
28	OPTIONAL	SIGNAL	29
26	OPTIONAL	GND	27
24	OPTIONAL	OPTIONAL	25
22	OPTIONAL	OPTIONAL	23
20	OPTIONAL	OPTIONAL	21
	KEY B	KEY B	
	KEY B	KEY B	
	KEY B	KEY B	
	KEY B	KEY B	
10	OPTIONAL	OPTIONAL	11
8	OPTIONAL	OPTIONAL	9
6	OPTIONAL	OPTIONAL	7
4	OPTIONAL	OPTIONAL	5
2	OPTIONAL	OPTIONAL	3
		OPTIONAL	1

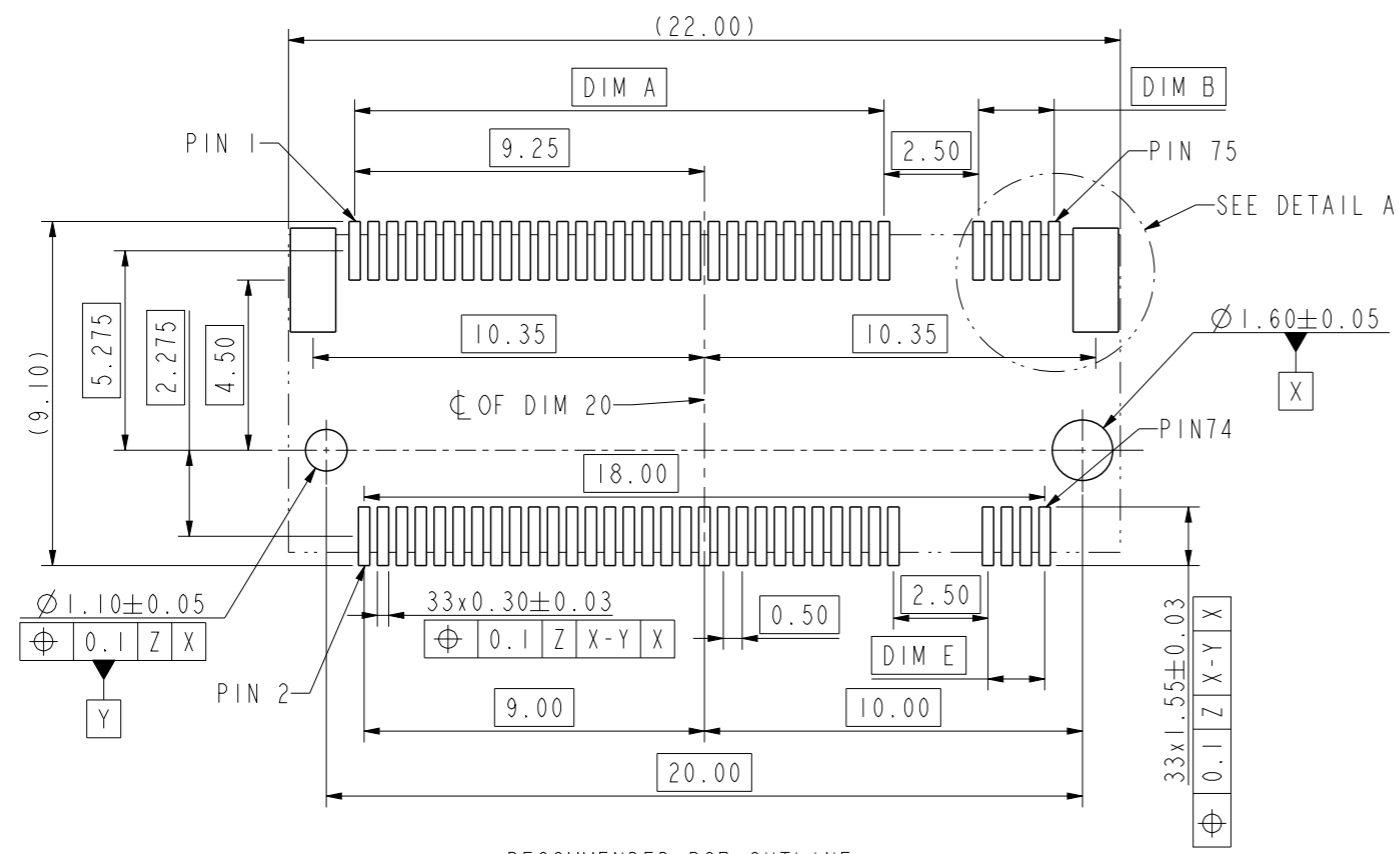
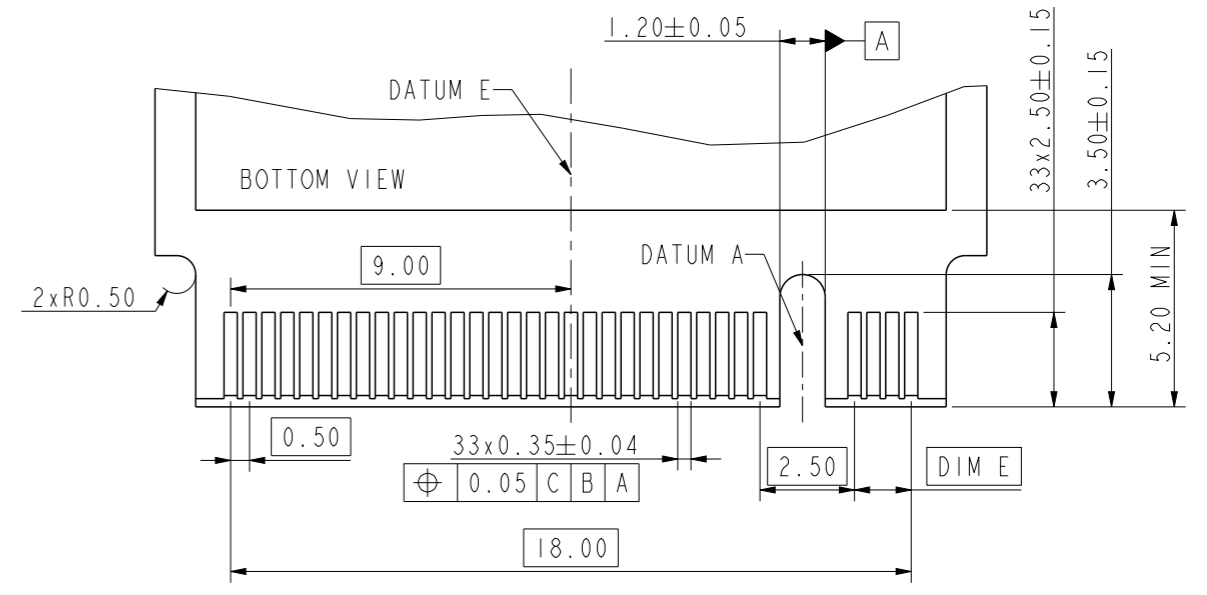
PIN			PIN
74	OPTIONAL	GND	75
72	OPTIONAL	SIGNAL	73
70	OPTIONAL	SIGNAL	71
68	OPTIONAL	GND	69
66	OPTIONAL	SIGNAL	67
64	OPTIONAL	SIGNAL	65
62	OPTIONAL	GND	63
60	OPTIONAL	SIGNAL	61
58	OPTIONAL	SIGNAL	59
56	OPTIONAL	GND	57
54	OPTIONAL	SIGNAL	55
52	OPTIONAL	SIGNAL	53
50	OPTIONAL	GND	51
48	OPTIONAL	SIGNAL	49
46	OPTIONAL	SIGNAL	47
44	OPTIONAL	GND	45
42	OPTIONAL	SIGNAL	43
40	OPTIONAL	SIGNAL	41
38	OPTIONAL	GND	39
36	OPTIONAL	SIGNAL	37
34	OPTIONAL	SIGNAL	35
32	OPTIONAL	GND	33
	KEY E	KEY E	
	KEY E	KEY E	
	KEY E	KEY E	
	KEY E	KEY E	
22	OPTIONAL	OPTIONAL	23
20	OPTIONAL	OPTIONAL	21
18	OPTIONAL	OPTIONAL	19
16	OPTIONAL	OPTIONAL	17
14	OPTIONAL	OPTIONAL	15
12	OPTIONAL	OPTIONAL	13
10	OPTIONAL	OPTIONAL	11
8	OPTIONAL	OPTIONAL	9
6	OPTIONAL	OPTIONAL	7
4	OPTIONAL	OPTIONAL	5
2	OPTIONAL	OPTIONAL	3
		OPTIONAL	1

PIN			PIN
74	OPTIONAL	OPTIONAL	75
72	OPTIONAL	OPTIONAL	73
70	OPTIONAL	OPTIONAL	71
68	OPTIONAL	OPTIONAL	69
	KEY M	OPTIONAL	67
	KEY M	KEY M	
	KEY M	KEY M	
	KEY M	KEY M	
	KEY M	KEY M	
58	OPTIONAL	GND	57
56	OPTIONAL	SIGNAL	55
54	OPTIONAL	SIGNAL	53
52	OPTIONAL	SIGNAL	53
50	OPTIONAL	GND	51
48	OPTIONAL	SIGNAL	49
46	OPTIONAL	SIGNAL	47
44	OPTIONAL	GND	45
42	OPTIONAL	SIGNAL	43
40	OPTIONAL	SIGNAL	41
38	OPTIONAL	GND	39
36	OPTIONAL	SIGNAL	37
34	OPTIONAL	SIGNAL	35
32	OPTIONAL	GND	33
30	OPTIONAL	SIGNAL	31
28	OPTIONAL	SIGNAL	29
26	OPTIONAL	GND	27
24	OPTIONAL	SIGNAL	25
22	OPTIONAL	SIGNAL	23
20	OPTIONAL	GND	21
18	OPTIONAL	SIGNAL	19
16	OPTIONAL	SIGNAL	17
14	OPTIONAL	GND	15
12	OPTIONAL	SIGNAL	13
10	OPTIONAL	SIGNAL	11
8	OPTIONAL	GND	9
6	OPTIONAL	SIGNAL	7
4	OPTIONAL	SIGNAL	5
2	OPTIONAL	GND	3
		OPTIONAL	1

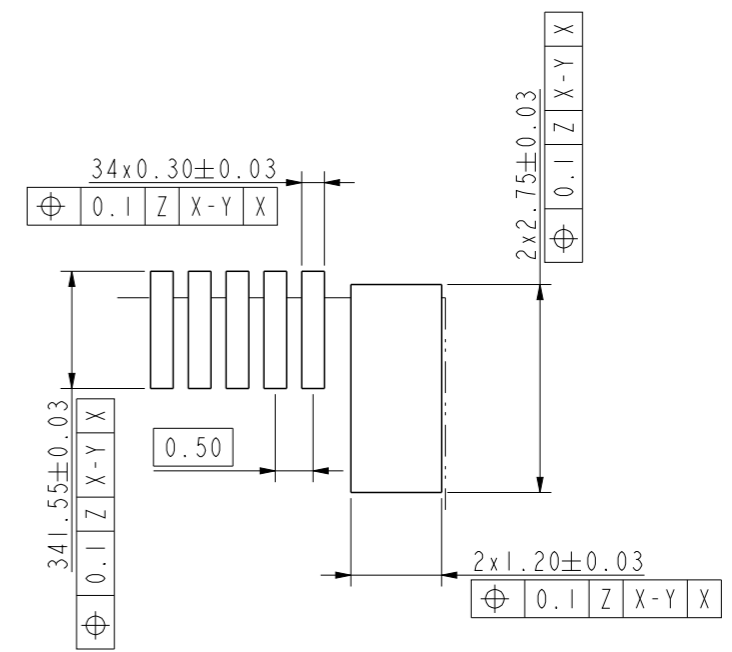
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tolerance std		eng	Yunx Liu	2021/11/19		5:1	A3	
TOLERANCES UNLESS OTHERWISE SPECIFIED		r vwr	Johnny Wang	2021/11/19		ecn no		
		appr	LY Yi	2021/11/19		rel level Released		
surface	linear	0.X	±0.50	projection	M.2 Gen5 CONNECTOR	cat. no.	rel level	rev
		0.XX	±0.25				Released	A
		0.XXX	±0.15					
	angular	0°	±5°		product family		sheet 2 of 4	



MATING CARD

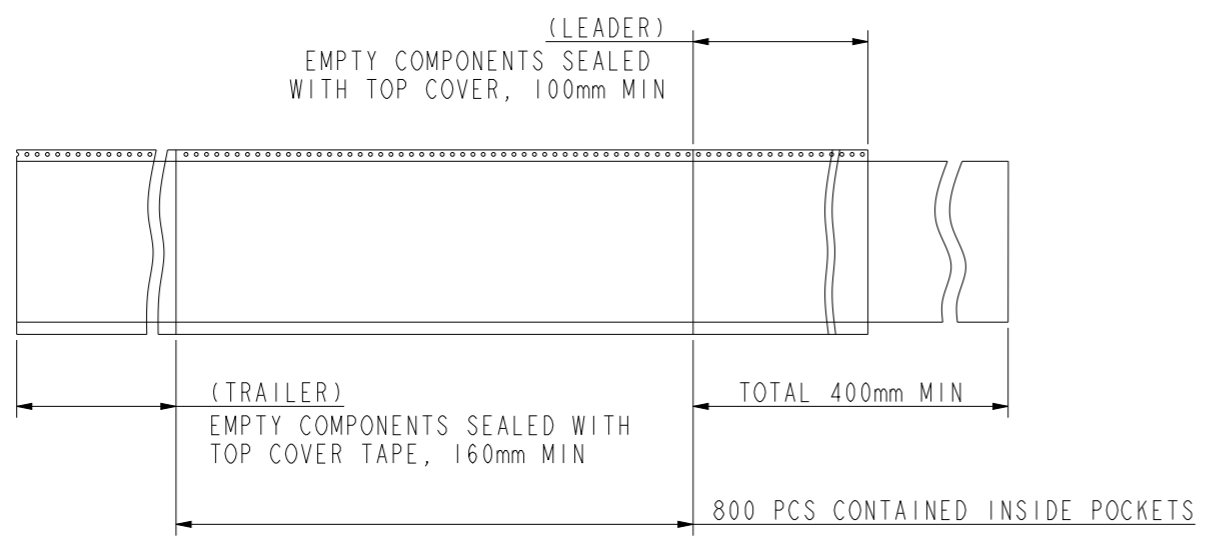
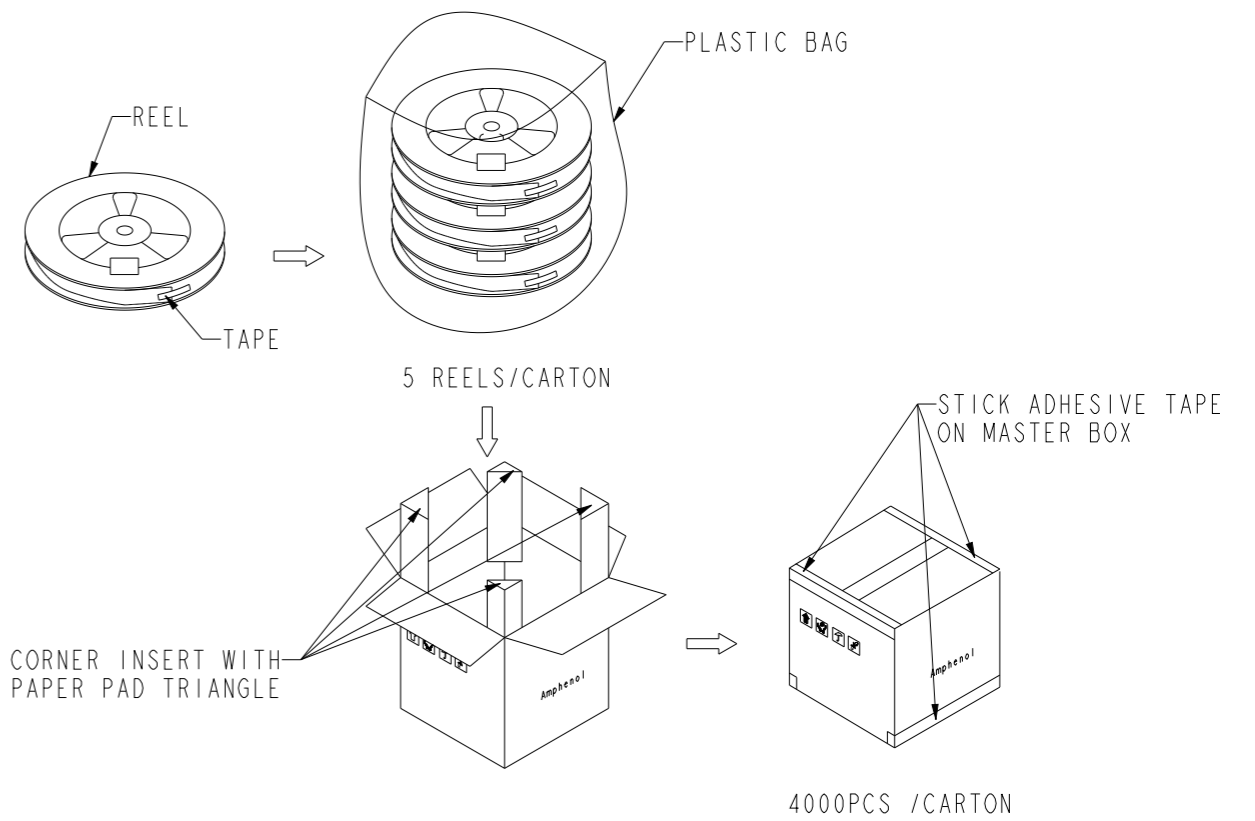
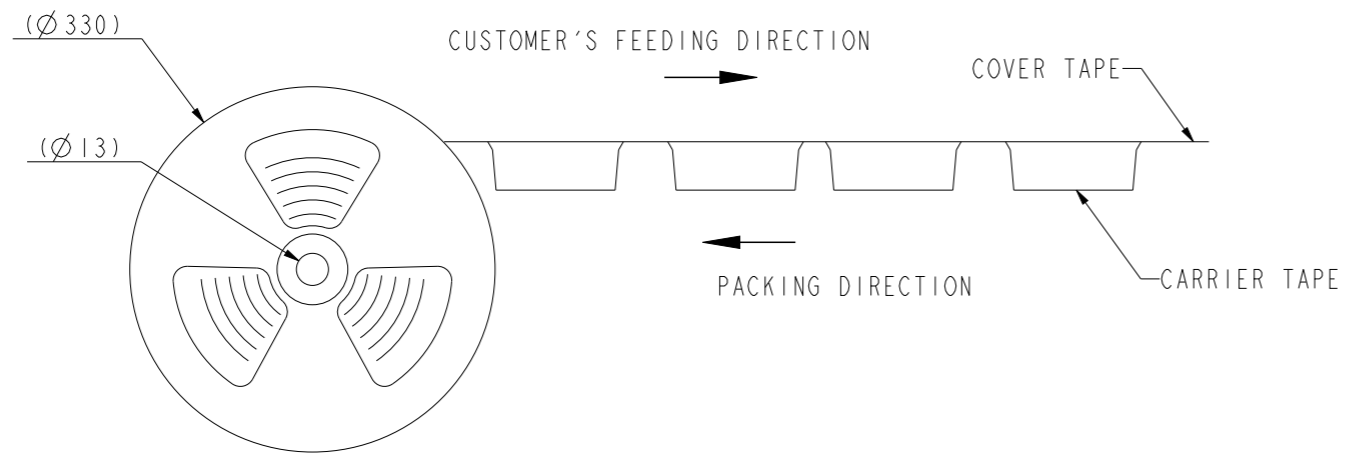
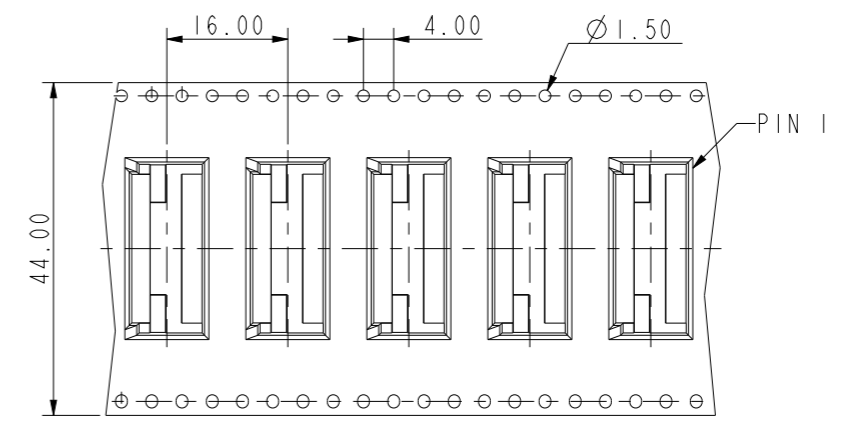
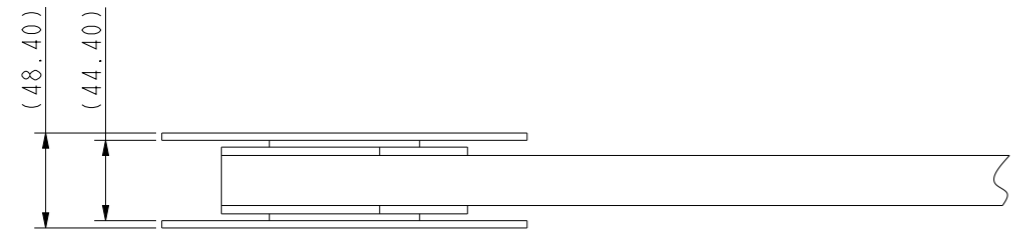


RECOMMENDED PCB OUTLINE
DATUM Z: PCB SOLDER SURFACE



DETAIL A
SCALE 10:1

spec ref	dr	Yunx Liu	2021/11/09	<h1>Amphenol</h1>	mm	scale	5:1	size	A3
tolerance std	eng	Yunx Liu	2021/11/19		ecn no	-			
TOLERANCES UNLESS OTHERWISE SPECIFIED linear 0.X ±0.50 0.XX ±0.25 0.XXX ±0.15 angular 0° ±5°	r vwr	Johnny Wang	2021/11/19		rel level	Released			
	appr	LY Yi	2021/11/19		amphenol-icc.com				
surface	projection	title M.2 Gen5 CONNECTOR product family		cat. no. CMDT420X01501 rev A	sheet 3 of 4				



spec ref		dr	Yunx Liu	2021/11/09	Amphenol	mm	scale	5:1	size	A3	
tolerance std		eng	Yunx Liu	2021/11/19		ecn no	-				
TOLERANCES UNLESS OTHERWISE SPECIFIED		r vwr	Johnny Wang	2021/11/19		rel level		Released			
		appr	LY Yi	2021/11/19		amphenol-icc.com					
surface	linear	0.X	±0.50	projection	title	M.2 Gen5 CONNECTOR		cat. no.	CMDT420X01501	rev	A
		0.XX	±0.25			product family				sheet 4 of 4	
	angular	0°	±5°								