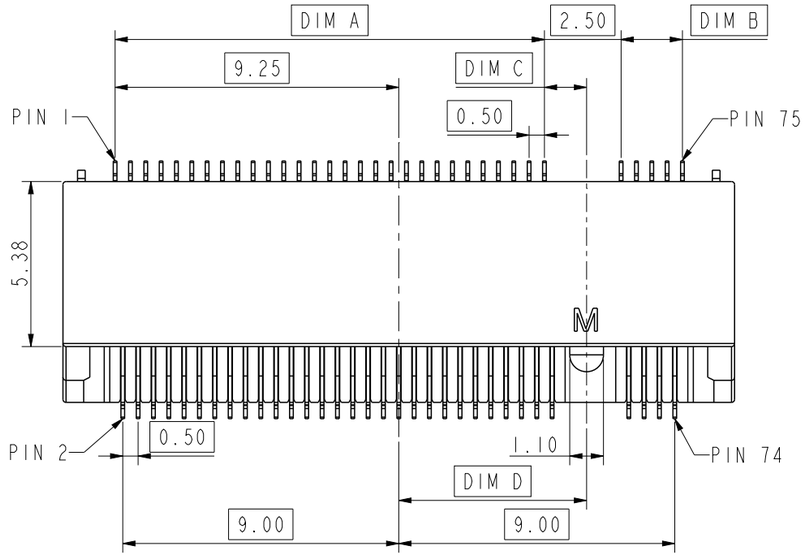
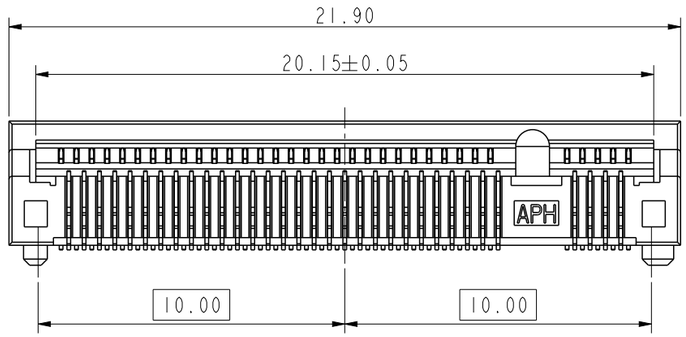
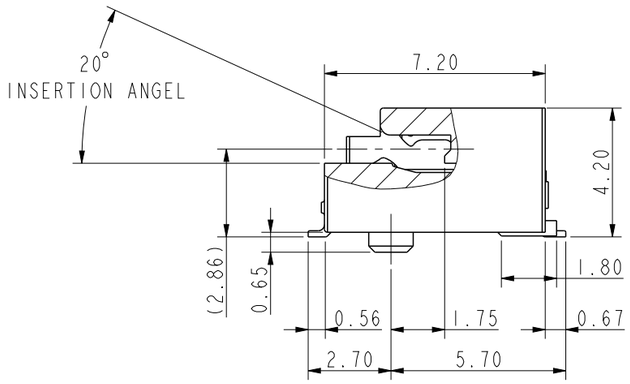
revision history				
rev	ecn no	description	dr	date
A	ELX-CD-F2906-1	FIRST RELEASE	YX	2021/11/19



NOTES:
1. MATERIAL:
   PLASTIC: LCP, UL 94V-0, BLACK
   CONTACT: COPPER ALLOY
   BOARD LOCK: COPPER ALLOY
2. 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
3. ELECTRICAL PERFORMANCE:
   INSULATION RESISTANCE: 500MΩ MIN
   OPERATION TEMPERATURE: -40°C TO +85°C
4. DIMENSIONING SHALL BE INTERPRETED PER ASME Y14.5M 1994
5. MATERIAL SHOULD BE FULFILLED AMPHENOL SPEC# S-SN-002
   FOR HALOGEN FREE PRODUCTS, ALSO NEED TO MEET # S-SN-004
6. CONNECTOR PIN ASSIGNMENT REFER TO PAGE 2
⚠1. 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.
8. 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

tolerance std: TOLERANCES UNLESS OTHERWISE SPECIFIED

surface

linear	0.X	±0.50
	0.XX	±0.25
	0.XXX	±0.15
angular	0°	±5°

projection

dr	Yunx Liu	2021/11/09
eng	Yunx Liu	2021/11/19
rvwr	Johnny Wang	2021/11/19
appr	LY Yi	2021/11/19

Amphenol
amphenol-icc.com

mm | scale 5:1 | size A3

ecn no -

rel level Released

title: M.2 Gen5 CONNECTOR

dwg no: CMDT420X01501

cat. no.

rev: A

product family

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

CONNECTOR PIN ASSIGNMENT ⚠1

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	
	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	KEY M	
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	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

spec ref			
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED		
surface	linear	0.X	±0.50
		0.XX	±0.25
		0.XXX	±0.15
	angular	0°	±5°

dr	Yunx Liu	2021/11/09
eng	Yunx Liu	2021/11/19
rvwr	Johnny Wang	2021/11/19
appr	LY Yi	2021/11/19

projection

Amphenol
amphenol-icc.com

mm | scale 5:1 | size A3

ecn no -

rel level **Released**

title: M.2 Gen5 CONNECTOR

dwg no: CMDT420X01501

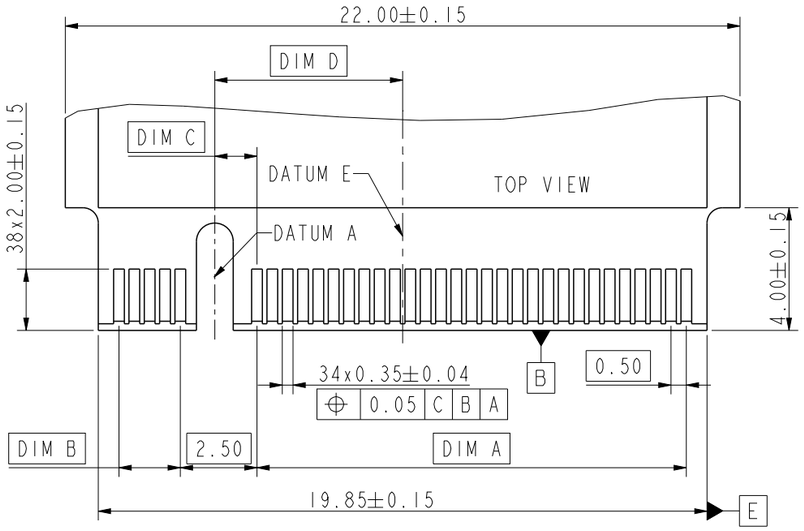
cat. no.

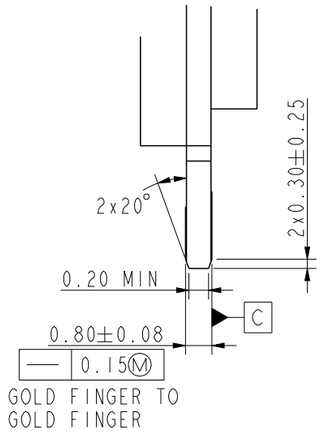
rev: A

product family

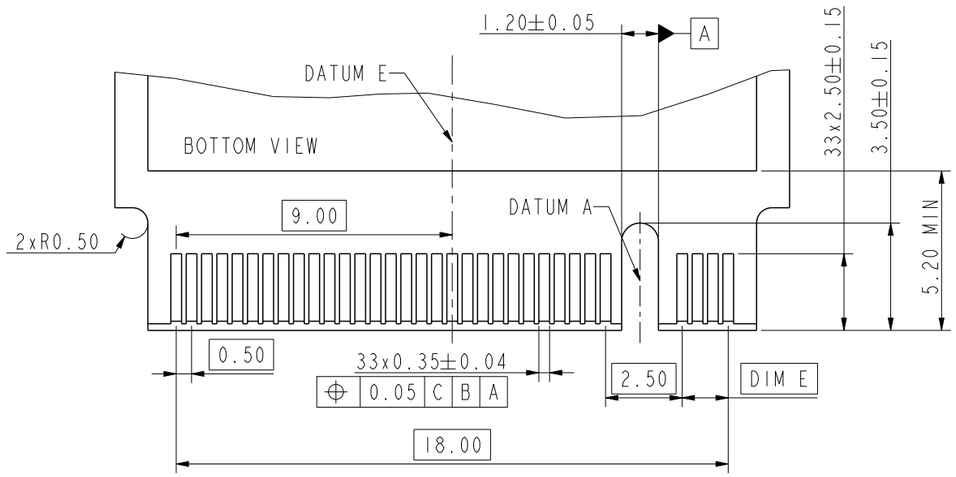
sheet 2 of 4

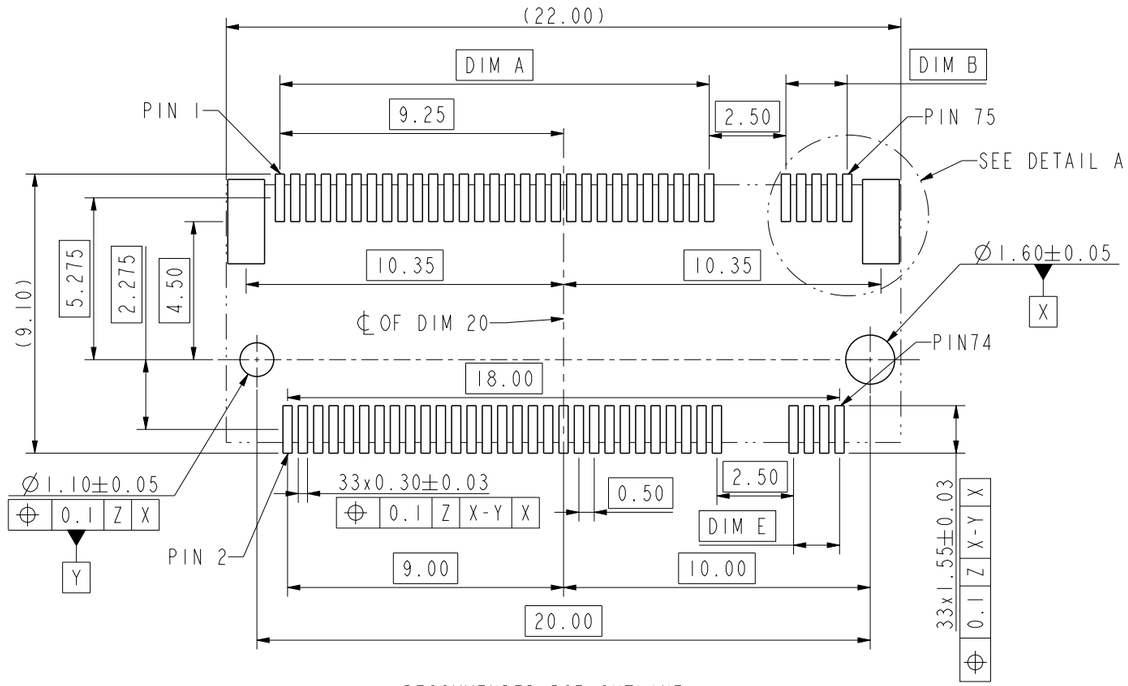
Creo File:APH-A3C,REV B,2021-05-07



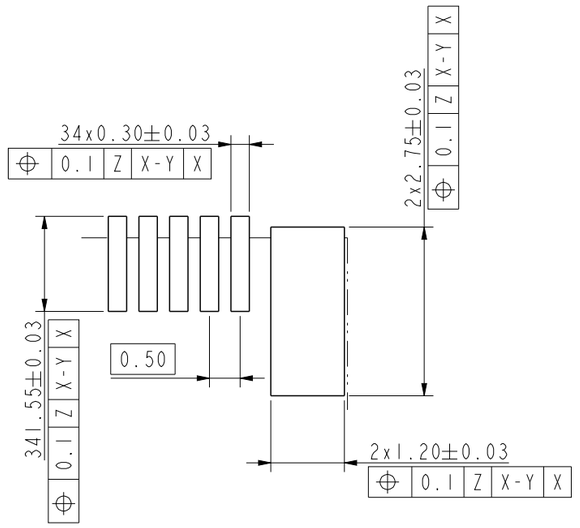


MATING CARD





RECOMMENDED PCB OUTLINE
DATUM Z: PCB SOLDER SURFACE



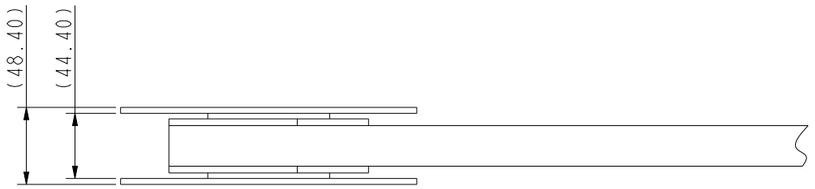
DETAIL A
SCALE 10:1

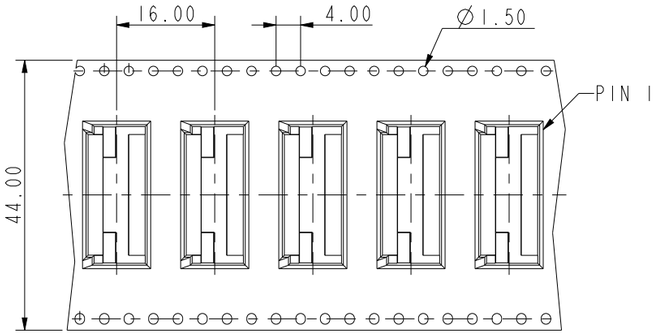
spec ref				dr	Yunx Liu	2021/11/09	
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Yunx Liu	2021/11/19	
				rvwr	Johnny Wang	2021/11/19	
				appr	LY Yi	2021/11/19	
surface	linear	0.X	±0.50	projection			
		0.XX	±0.25				
		0.XXX	±0.15				
	angular	0°	±5°				

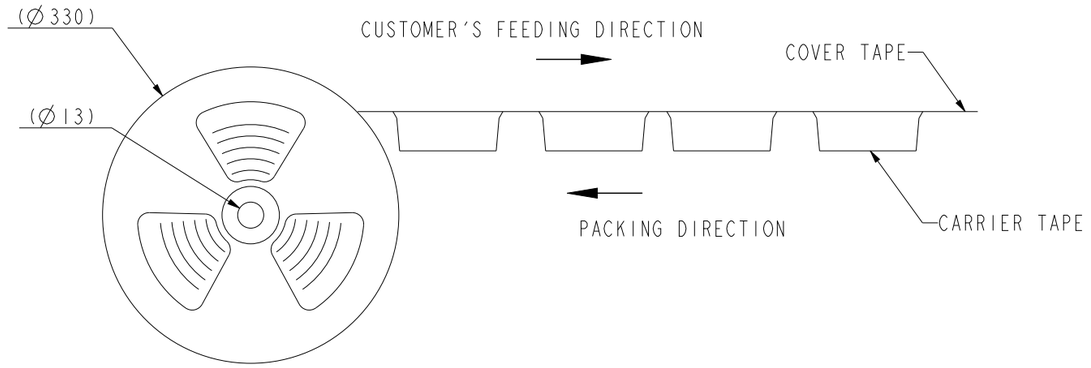
Amphenol
amphenol-icc.com

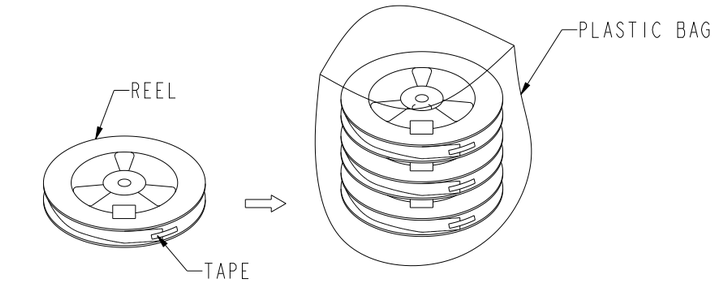
mm	scale 5:1	size A3	
ecn no	-		
rel level	Released		
title	M.2 Gen5 CONNECTOR	dwg no	CMDT420X01501
		cat. no.	
		rev	A
product family		sheet 3 of 4	

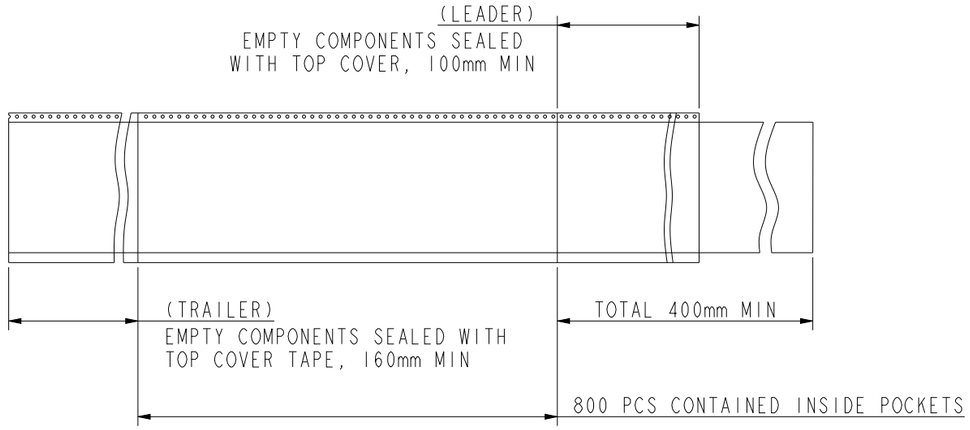
Creo File:APH-A3C,REV B,2021-05-07

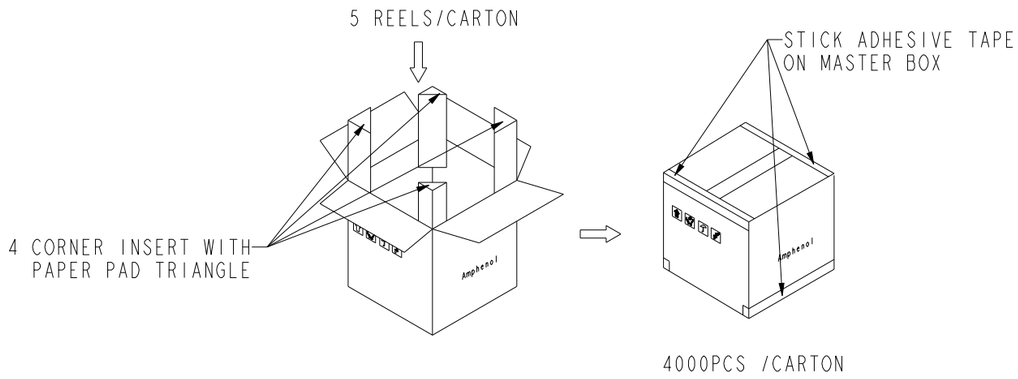












spec ref				dr	Yunx Liu	2021/11/09	Amphenol
tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Yunx Liu	2021/11/19	mm / scale 5:1 / size A3
				rvwr	Johnny Wang	2021/11/19	ecn no -
				appr	LY Yi	2021/11/19	amphenol-icc.com / rel level Released
surface	linear	0.X	±0.50	projection	title	M.2 Gen5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

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