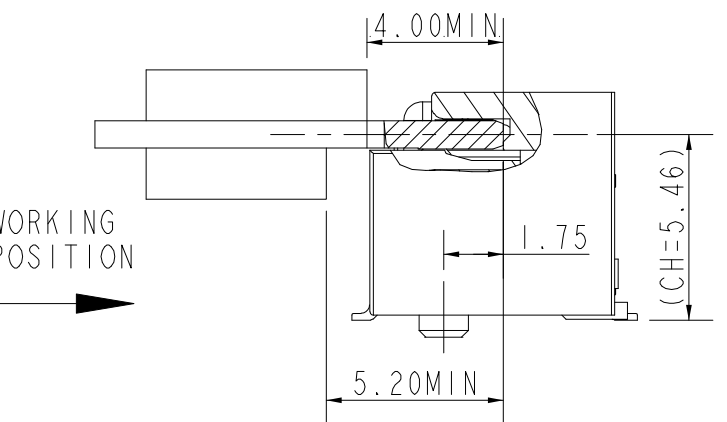
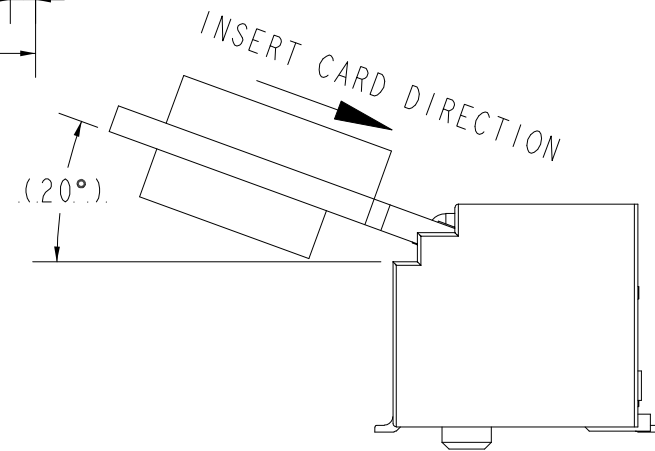
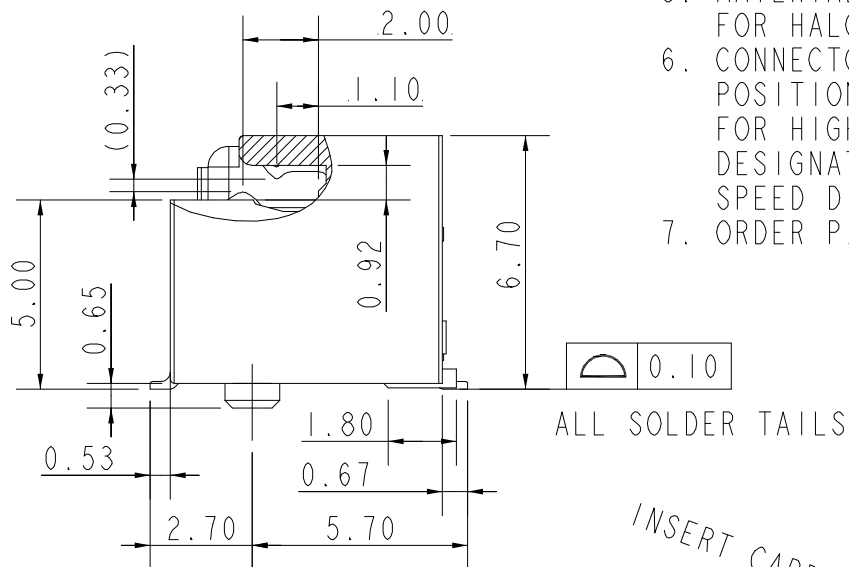
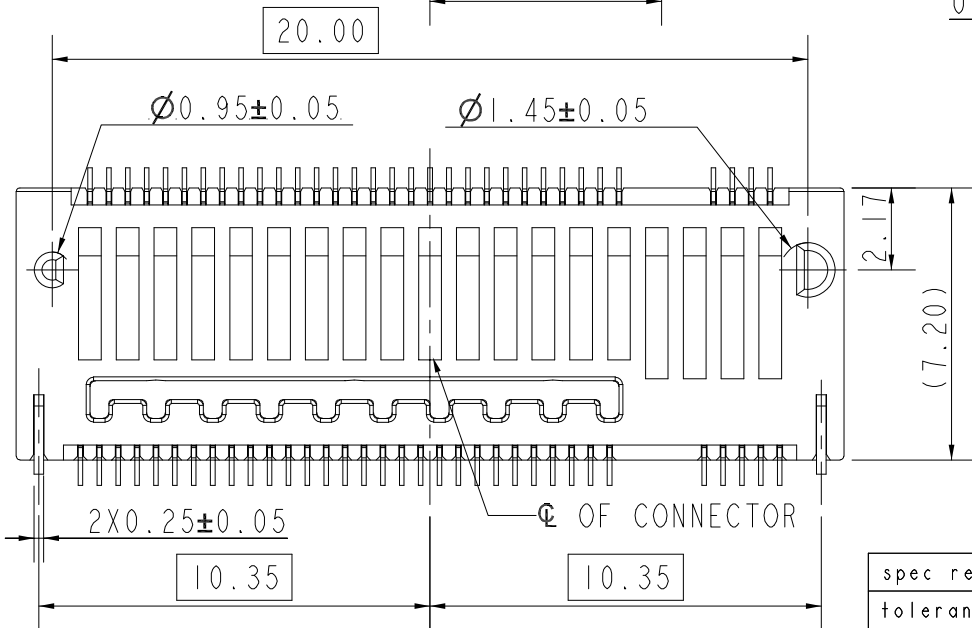
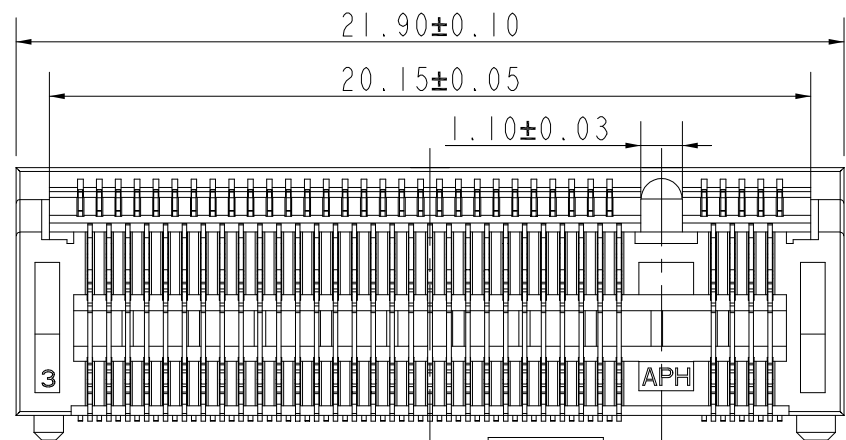
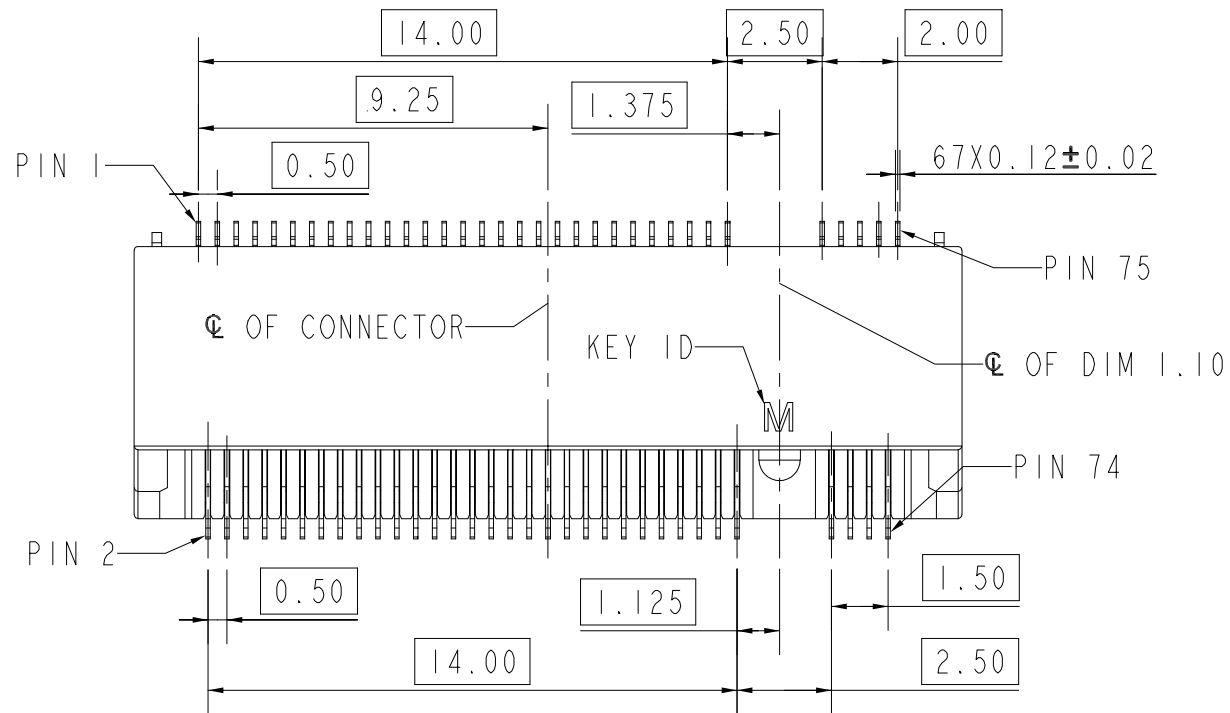




revision history				
rev	ecn no	description	dr	date
A	CD2643	FIRST RELEASE	YX	2021/05/28
A1	ELX-CD-XXXX	UPDATED PLATING Au SPECIFICATION AND UPDATED DESIGN FOR BETTER SI PERFORMANCE	AT	2023/03/14
A2	ELX-CD-XXXX	UPDATED CURRENT RATING SPECIFICATION	AT	2023/05/24
B	ELX-CD-54779-1	ADDED PLUG PCB LAYOUT	LX	2025/02/06

- NOTES:
- MATERIAL:
PLASTIC: LCP, UL 94V-0, BLACK
CONTACT: COPPER ALLOY
BOARD LOCK: COPPER ALLOY
 - FINISHED:
CONTACT AREA: SEE ORDER P/N.
SOLDER AREA: GOLD FLASH
BOARD LOCK: 2.54um MIN MATTE PURE TIN PLATED
UNDERPLATED: 1.27um MIN Ni PLATED
 - ELECTRICAL PERFORMANCE:
CURRENT RATING:1.0A PER POWER PIN;VOLTAGE RATING: 50 VAC
DIELECTRIC STRENGTH: 300V AC FOR 1 MINUTE
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 SHEET 2
POSITIONS DESIGNATED AS "SIGNAL" ARE REQUIRED LOCATIONS FOR HIGH SPEED DIFFERENTIAL PAIR SIGNALING; POSITIONS DESIGNATED AS "GND" ARE REQUIRED WHEN SURPPORTING HIGH SPEED DIFFERENTIAL SIGNAL; POSITIONS DESIGNATED AS "OPTIONAL"
 - ORDER P/N: MDT670MXX501

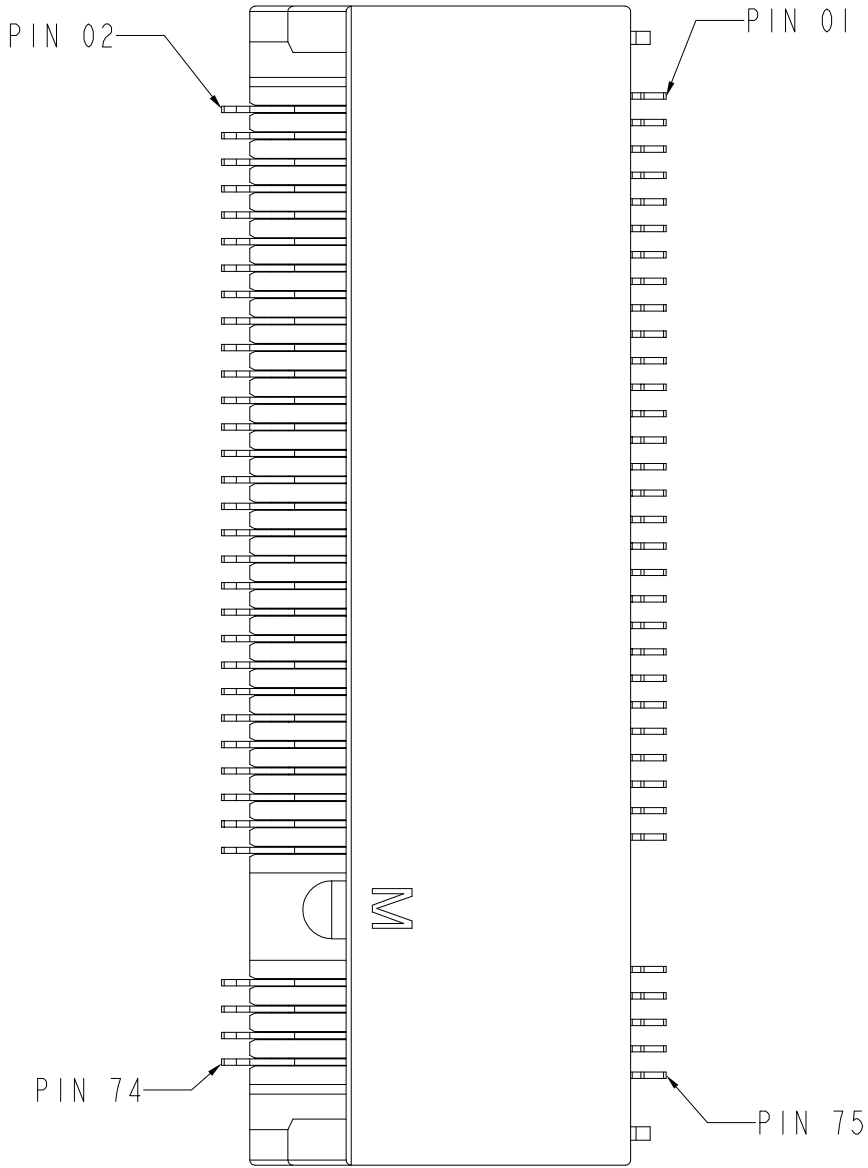
- PLATING
- 01 0.76 MICRONS GOLD PLATING
 - 02 0.38 MICRONS GOLD PLATING
 - 03 GOLD FLASH
 - 04 0.25 MICRONS GOLD PLATING

ALL SOLDER TAILS

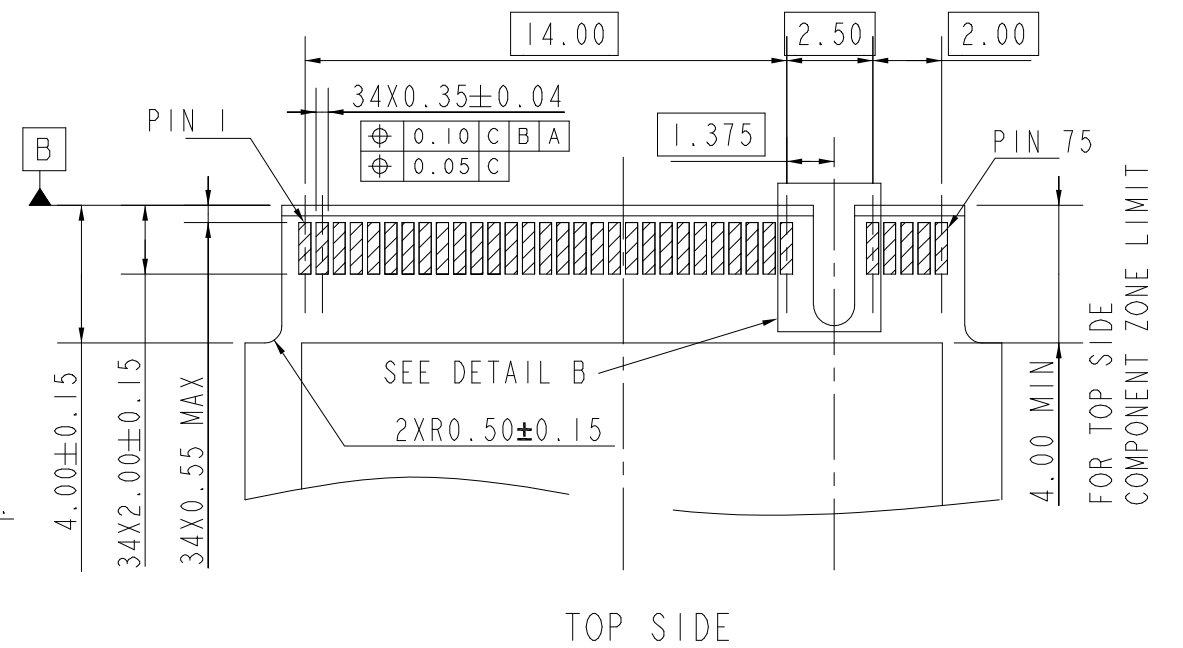
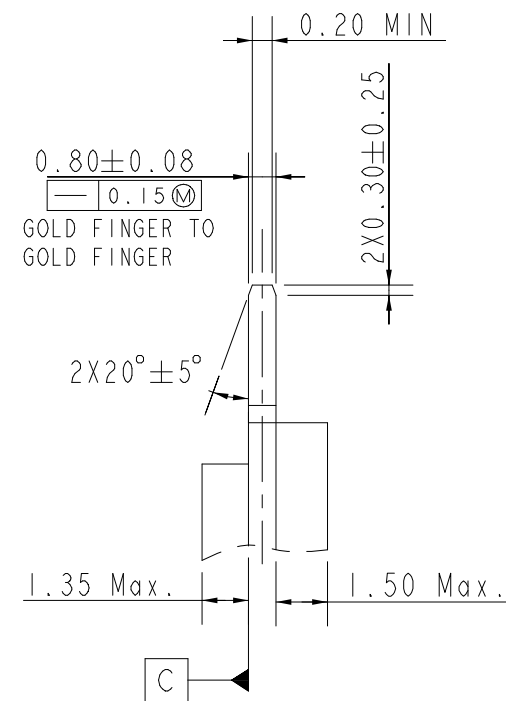
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tolerance std	TOLERANCES UNLESS OTHERWISE SPECIFIED			eng	Liam.Xiang	2025/02/06				5.000	A3
				r vwr					ecn no	ELX-CD-54779-1	
				appr					amphenol-icc.com	rel level	
surface	linear	0.X	±0.50	projection		title	M.2 CONNECTOR	dwg no	C MDT670MXX501	rev	
		0.XX	±0.25								
		0.XXX	±0.15								
	angular	0°	±5°	product family				Gen5, RA, 6.7H, KEY-M	cat. no.	B	
						</					

CONNECTOR PIN ASSIGNMENT

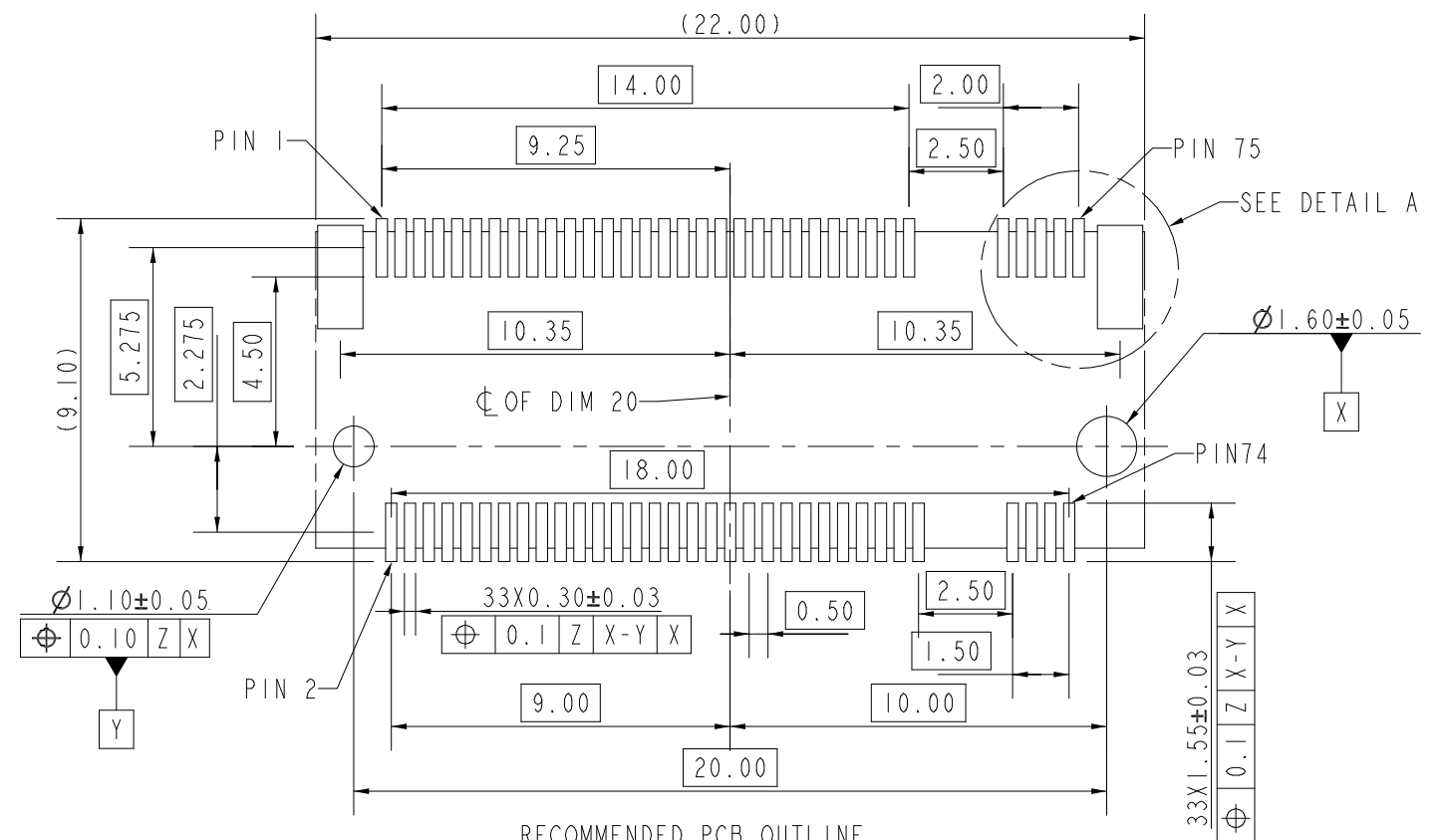
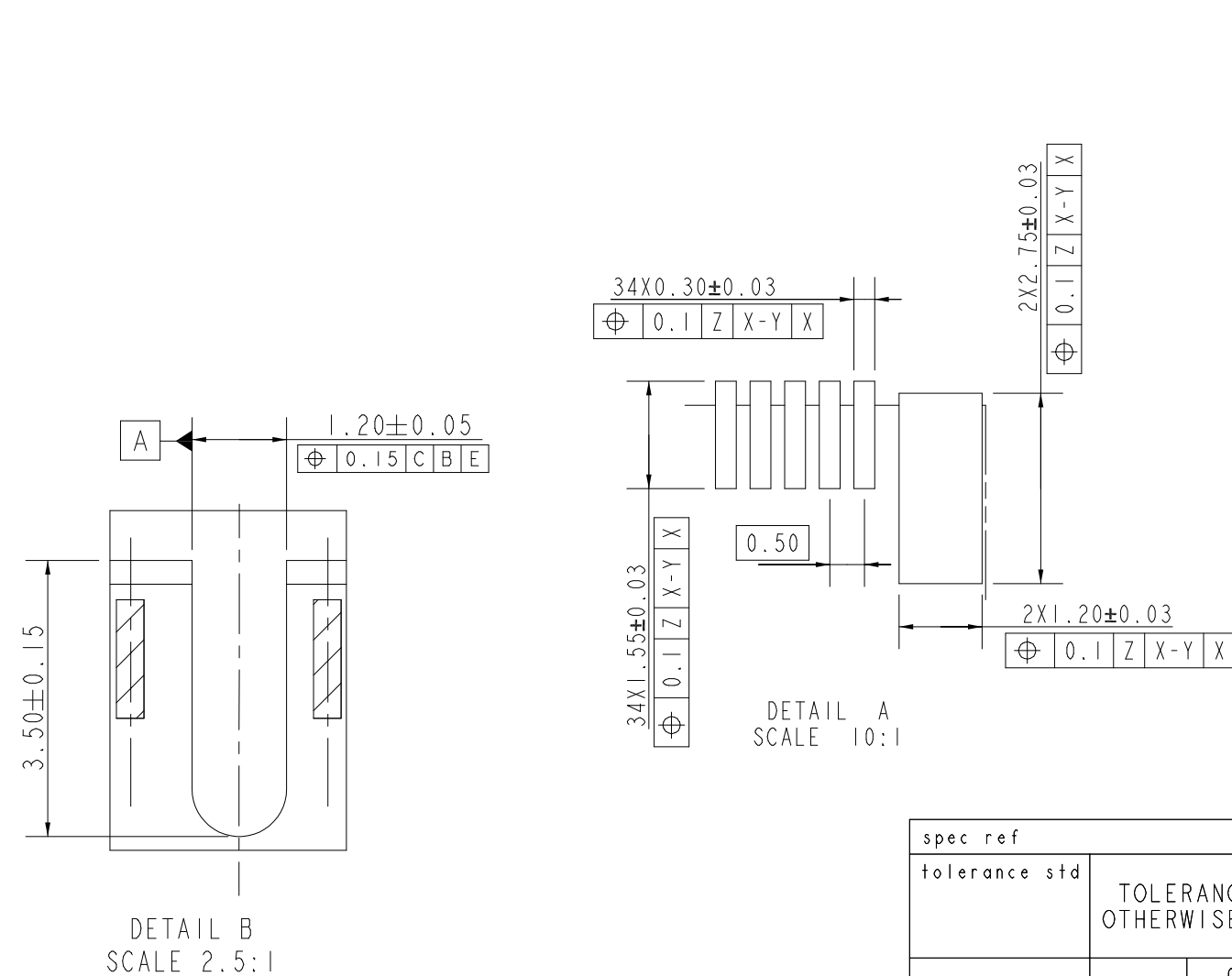
PIN			PIN
		OPTIONAL	1
2	OPTIONAL	GND	3
4	OPTIONAL	SIGNAL	5
6	OPTIONAL	SIGNAL	7
8	OPTIONAL	GND	9
10	OPTIONAL	SIGNAL	11
12	OPTIONAL	SIGNAL	13
14	OPTIONAL	GND	15
16	OPTIONAL	SIGNAL	17
18	OPTIONAL	SIGNAL	19
20	OPTIONAL	GND	21
22	OPTIONAL	SIGNAL	23
24	OPTIONAL	SIGNAL	25
26	OPTIONAL	GND	27
28	OPTIONAL	SIGNAL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



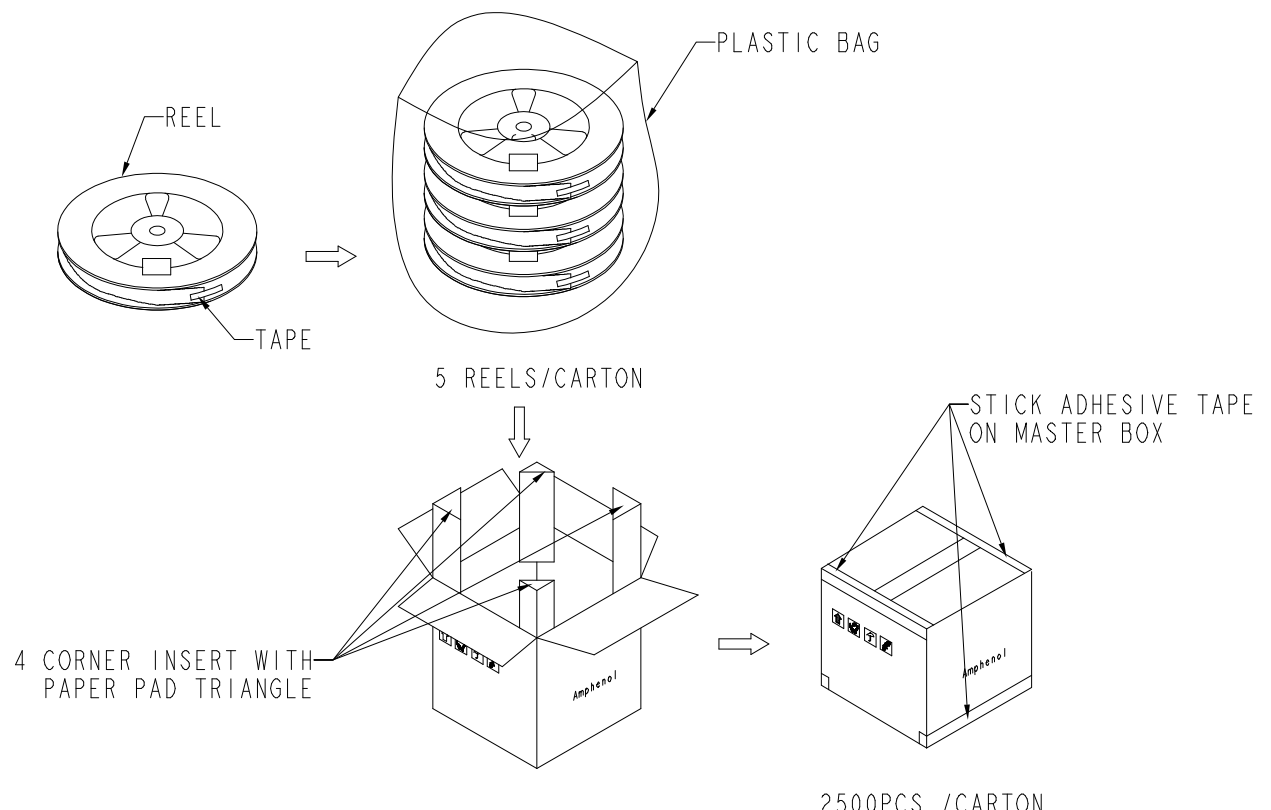
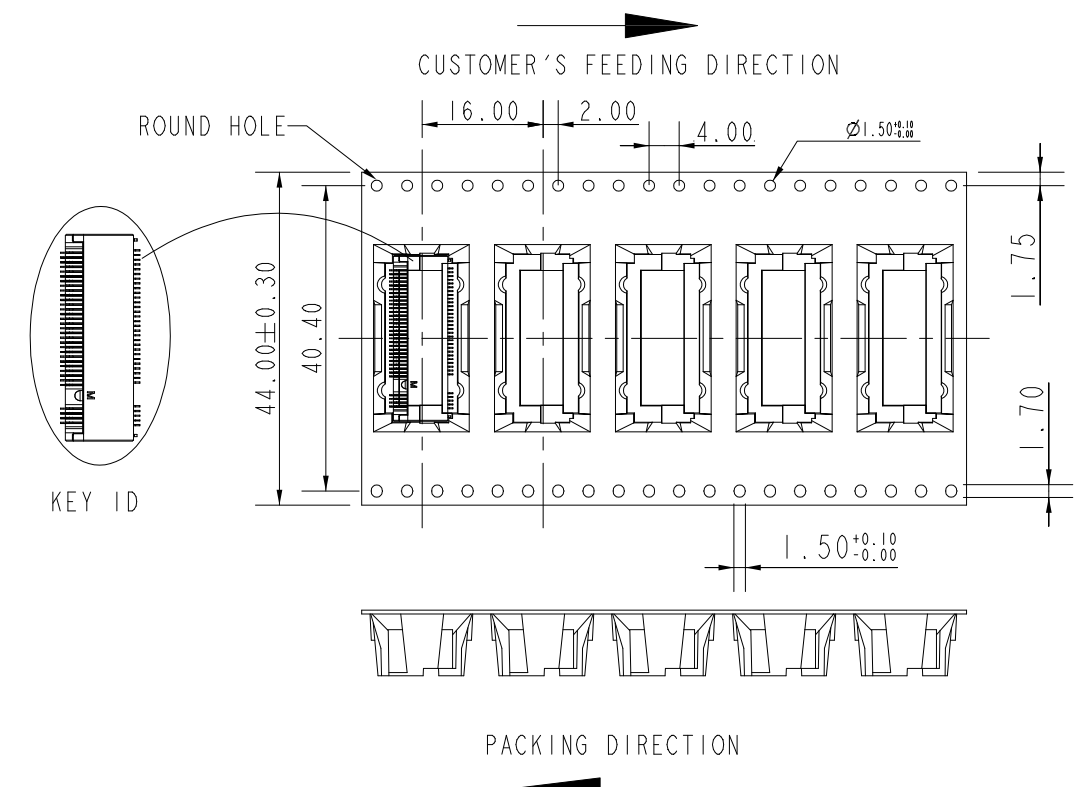
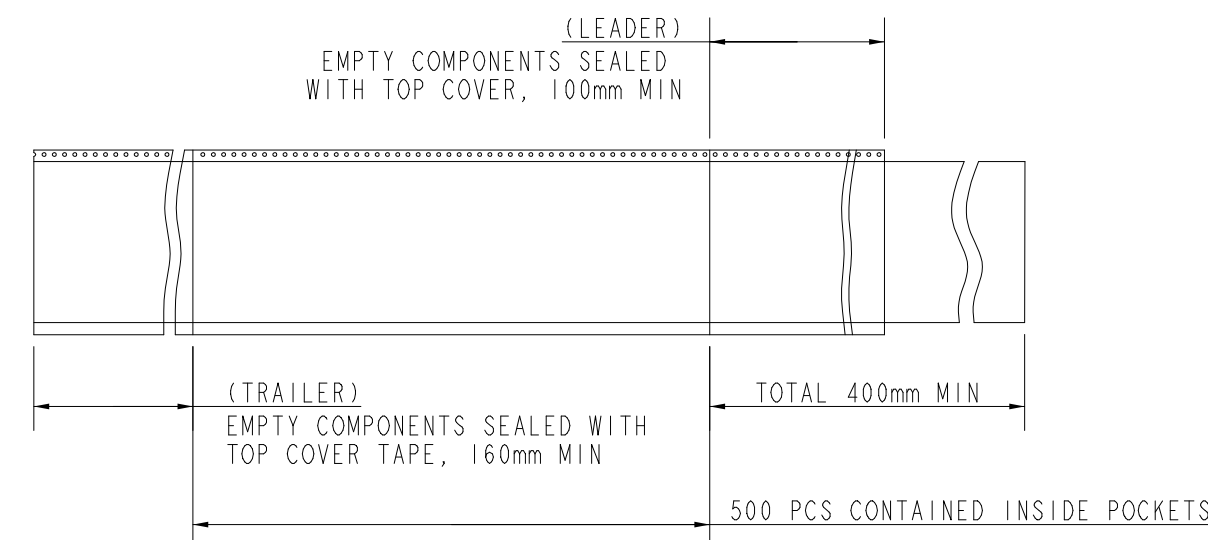
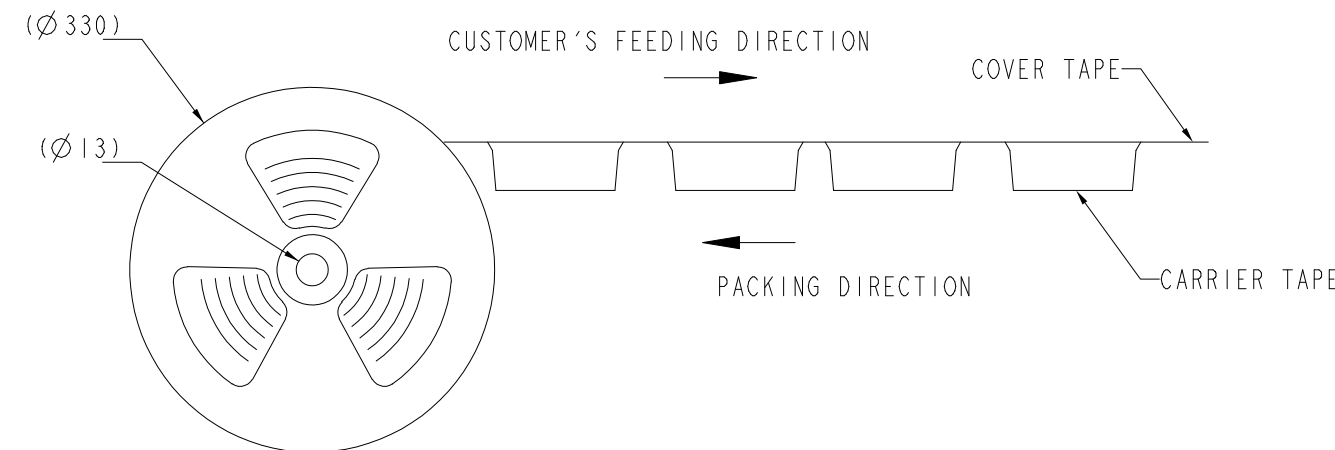
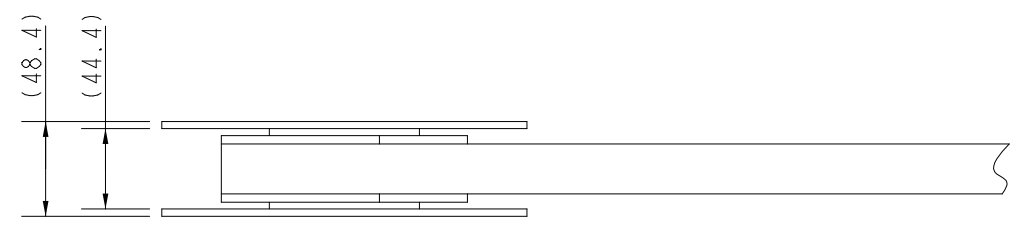
spec ref				dr		Liam.Xiang		2025/02/06		Amphenol				mm		scale		size									
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng		Liam.Xiang		2025/02/06						ecn no				ELX-CD-54779-1									
				rvwr										amphenol-icc.com				rel level									
				appr																							
surface		linear		0.X		±0.50		projection		title		M.2 CONNECTOR				dwg no		C MDT670MXX501				rev					
																								0.XX		±0.25	
		angular		0°		±5°						Gen5, RA, 6.7H, KEY-M				cat. no.				B							
				product family				sheet 2 of 4																			



RECOMMENDED PCB OUTLINE
DATUM Z: PCB SOLDER SURFACE



spec ref				dr		Liam.Xiang		2025/02/06		Amphenol		mm		scale		size			
tolerance std				eng		Liam.Xiang		2025/02/06				←→		3.000		A3			
				rvwr								ecn no		ELX-CD-54779-I					
				appr								amphenol-icc.com		rel level					
surface		linear		0.X		±0.50		projection		title		M.2 CONNECTOR		dwg no		C MDT670MXX50I		rev	
				0.XX		±0.25													
				0.XXX		±0.15													
		angular		0°		±5°						Gen5, RA, 6.7H, KEY-M		cat. no.		B			



spec ref				dr	Liam.Xiang	2025/02/06	Amphenol		mm	scale	size
tolerance std		TOLERANCES UNLESS OTHERWISE SPECIFIED		eng	Liam.Xiang	2025/02/06			3.000	A3	
				rvwr					ecn no		ELX-CD-54779-1
				appr					amphenol-icc.com		rel level
surface	linear	0.X	±0.50	projection		title	M.2 CONNECTOR	dwg no	C MDT670MXX501		rev
		0.XX	±0.25								
		0.XXX	±0.15					cat. no.			
	angular	0°	±5°	product family						sheet 4 of 4	