

REV.	DESCRIPTION	DRAWN	DATE
1	INITIAL RELEASE	FROS	2024/09/05

SPECIFICATION:

1. ELECTRICAL
 - 1.1 Current Rating: 1A (power pin)
 - 1.2 Voltage Rating: 50VAC
 - 1.3 Contact Resistance: 55mΩ, Δ20mΩ MAX.
 - 1.4 Insulation Resistance: 500MΩ
 - 1.5 Dielectric Withstanding Voltage: 300VAC
2. MECHANICAL
 - 2.1 Durability: 60 Cycle
 - 2.2 Mating Force: 25N max.
 - 2.3 Un-mating Force: 25N max.
3. ENVIRONMENTAL
 - 3.1 Operating temperature range: -40°C~+85°C
 - 3.2 Storage temperature range: -40°C~+85°C
4. SOLDER ABILITY
 - 4.1 Recommended IR-Reflow Temperature: 260°C

6	CAP	Thermoplastic, UL94V-0, black
5	SHIELD	Copper alloy, 50u" min. nickel plating over all
4	HOLD DOWN	Copper alloy, 50u" min. matte tin plating 50u" min. under-plating Nickel
3	LOWER CONTACT	Copper alloy, contact area: gold flash, solder area: gold flash, under-plating
2	UPPER CONTACT	50u" min. nickel over all
1	INSULATOR	Thermoplastic, UL94V-0, black
NO.	PART NAME	DESCRIPTION

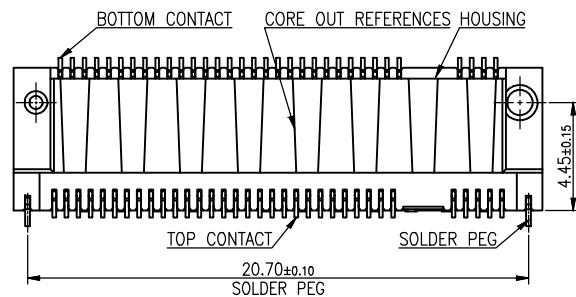
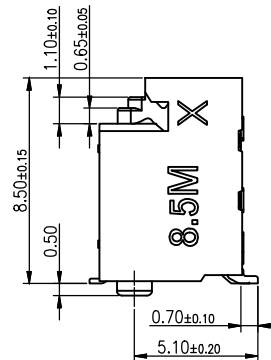
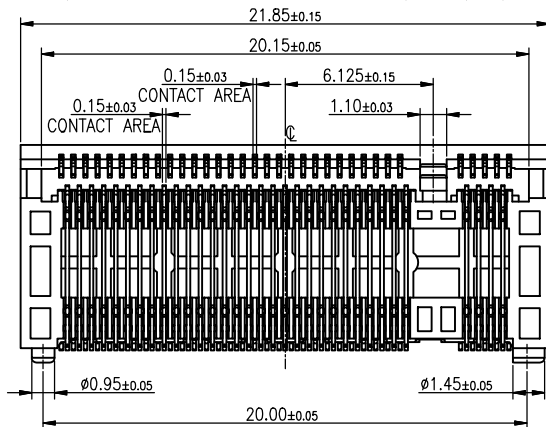
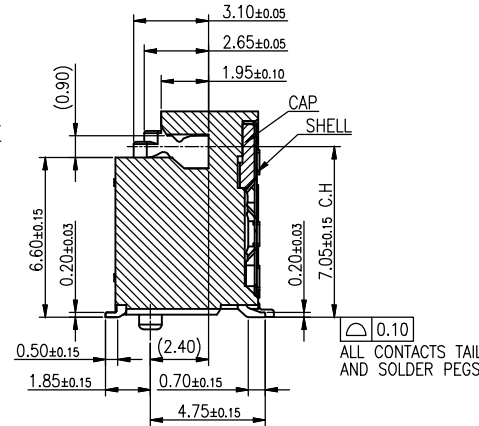
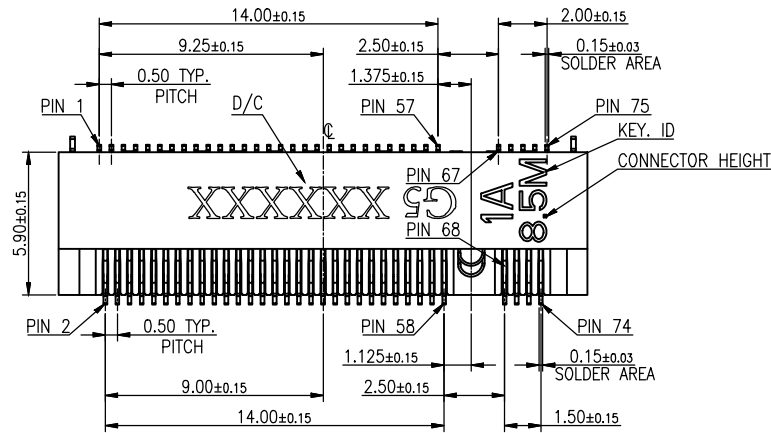
UNLESS OTHERWISE SPECIFIED TOLERANCE

UNIT:	DECIMAL	LINEAR	ANGLES
mm	X.	±0.50	±5°
	X.X	±0.25	±3°
	X.XX	±0.12	±1°

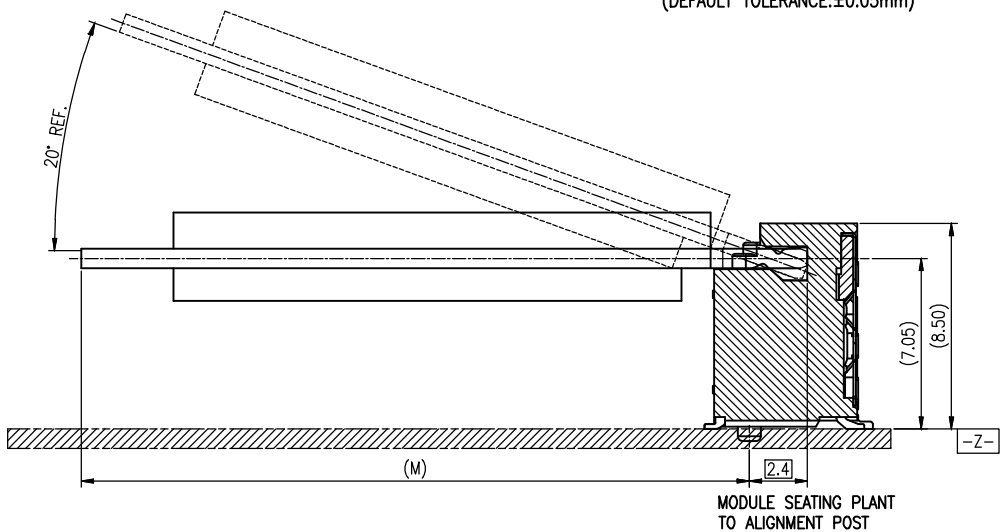
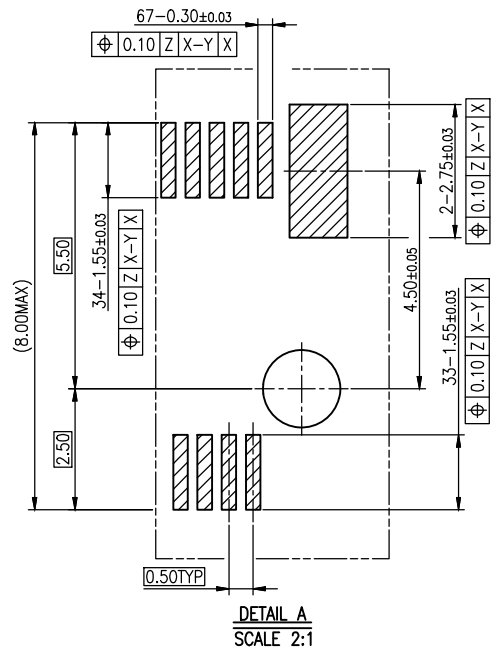
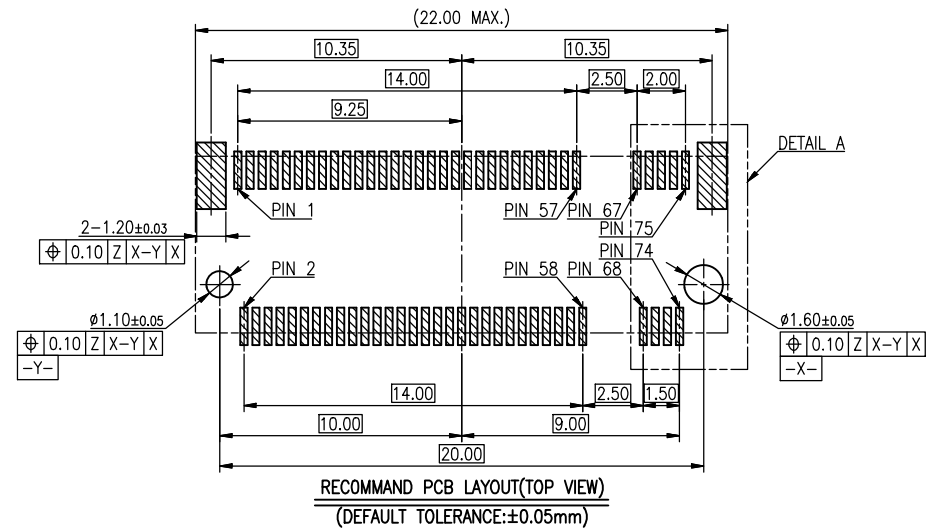


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DRAWN	Fros	2024/09/05	DRAWN NAME:
CHECKED	Tim	2024/09/05	M.2 Gen5 Socket, H8.5 M Key 0.5 Pitch G/F, Black, Reel
APPROVED	Ken	2024/09/05	PRODUCT NO. 123A-85M02
SCALE	3.2/1	SHEET 1/4	SIZE A4
FILE NAME	123A-85M02_B_1		



REV.	DESCRIPTION	DRAWN	DATE
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30.00	(108.25)
	(78.25)
22.00	(40.25)
	(28.25)
DIM. K	DIM. M



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UNIT:	DECIMAL	LINEAR	ANGLES				
mm	X.	±0.50	±5°				
	X.X	±0.25	±3°				
	X.XX	±0.12	±1°				
DRAWN	Fros	2024/09/05	DRAWN NAME: M.2 Gen5 Socket, H8.5 M Key 0.5 Pitch G/F, Black, Reel				
CHECKED	Tim	2024/09/05					
APPROVED	Ken	2024/09/05					
SCALE	N/A	SHEET	2/4	SIZE	A4	FILE NAME	123A-85M02_B_1

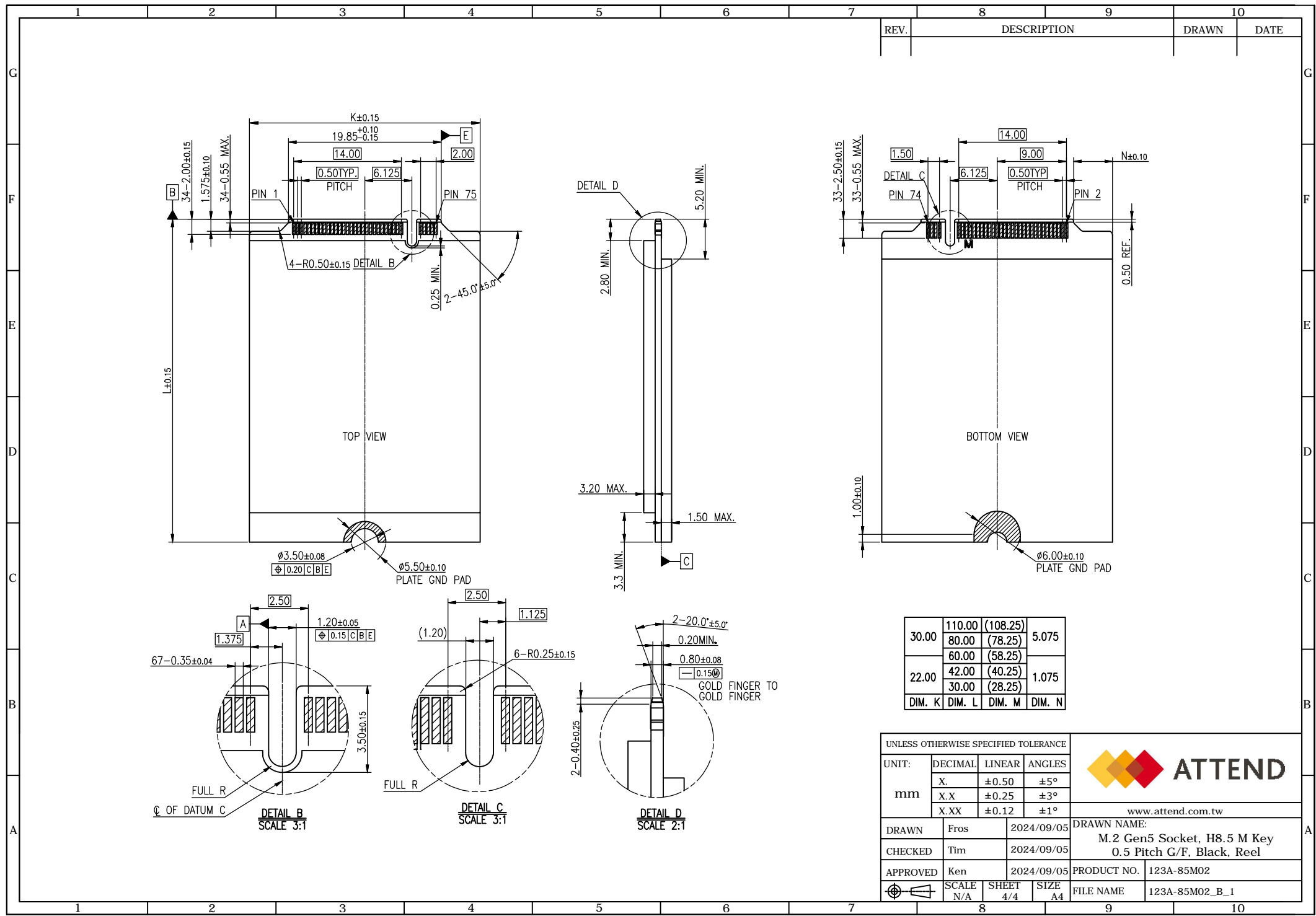
Table: Connector Pinout Definitions(Key M)

PIN	SIGNAL	SIGNAL	PIN
74	3.3V	GND	75
72	3.3V	VIO_CFG(I) or GND	73
70	3.3V	GND	71
68	SUSCLK(O)(0/1.8V/3.3V)	PEDET=GND(SATA),PEDET=NC(PCIe)	69
	CONNECTOR KEY M	NC	67
58	NC	CONNECTOR KEY M	
56	NC	GND	57
54	PEWAKE#(I/O)(0/1.8V/3.3V) or NC	REFCLKp	55
52	CLKREQ#(I/O)(0/1.8V/3.3V) or NC	REFCLKn	53
50	PERST#(O)(0/1.8V/3.3V) or NC	GND	51
48	NC	PETp0/SATA-A+	49
46	NC	PETn0/SATA-A-	47
44	ALERT#(I)(0/1.8V)	GND	45
42	SMB_DATA(I/O)(0/1.8V)	PERp0/SATA-B-	43
40	SMB_CLK(I/O)(0/1.8V)	PERn0/SATA-B+	41
38	DEVSLP(O)(SATA) or GND (USB)	GND	39
36	USB_D- or NC	PETp1	37
34	USB_D+ or NC	PETn1	35
32	NC or GND (USB)	GND	33
30	PLA_S3#(I)(0/1.8V/3.3V) or NC	PERp1	31
28	NC	PERn1	29
26	NC	GND	27
24	NC	PETp2	25
22	VIO 1.8V or NC	PETn2	23
20	NC	GND	21
18	3.3V	PERp2	19
16	3.3V	PERn2	17
14	3.3V	GND	15
12	3.3V	PETp3	13
10	DAS/DSS(I/O)/LED_1#(I)(0/3.3V)	PETn3	11
08	PLN#(O)(0/1.8V/3.3V) or NC	GND	09
06	PWRDIS(O)(0/1.8V/3.3V) or NC	PERp3	07
04	3.3V	PERn3	05
02	3.3V	GND	03
		GND	01

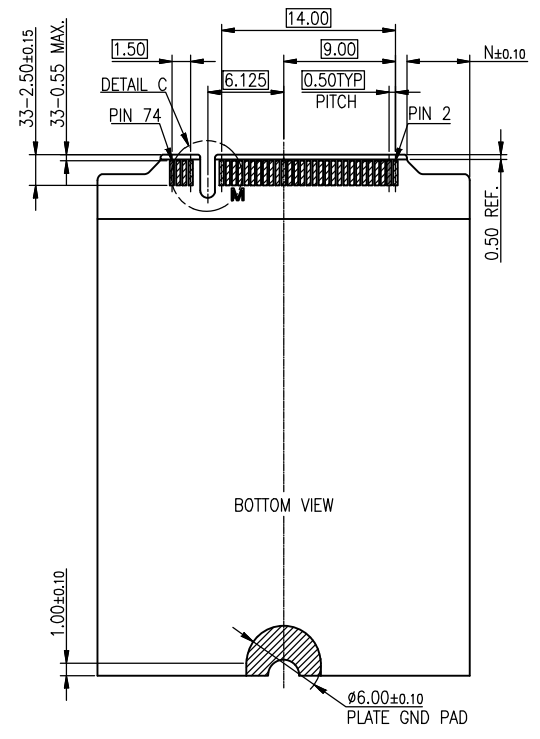
SHELL
GND

SHELL
GND


UNLESS OTHERWISE SPECIFIED TOLERANCE					
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	X.XX	±0.12	±1°		
DRAWN	Fros	2024/09/05	DRAWN NAME:		
CHECKED	Tim	2024/09/05	M.2 Gen5 Socket, H8.5 M Key 0.5 Pitch G/F, Black, Reel		
APPROVED	Ken	2024/09/05	PRODUCT NO.	123A-85M02	
	SCALE N/A	SHEET 3/4	SIZE A4	FILE NAME	123A-85M02_B_1



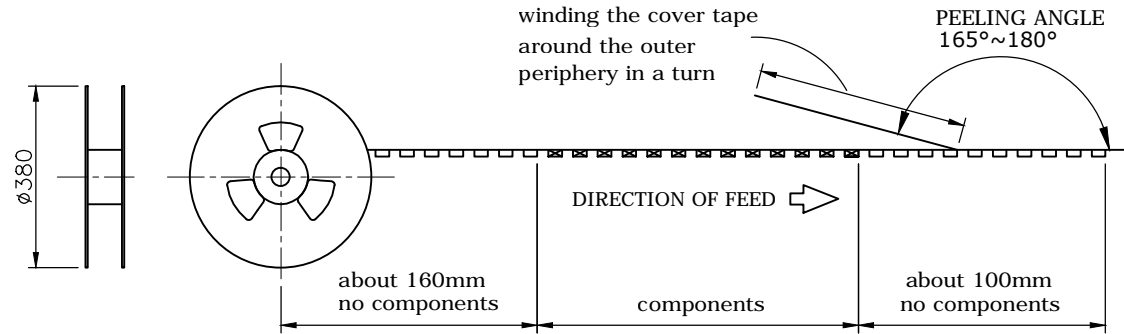
REV.	DESCRIPTION	DRAWN	DATE
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30.00	110.00 (108.25)	5.075	
	80.00 (78.25)		
22.00	60.00 (58.25)	1.075	
	42.00 (40.25)		
	30.00 (28.25)		
DIM. K	DIM. L	DIM. M	DIM. N

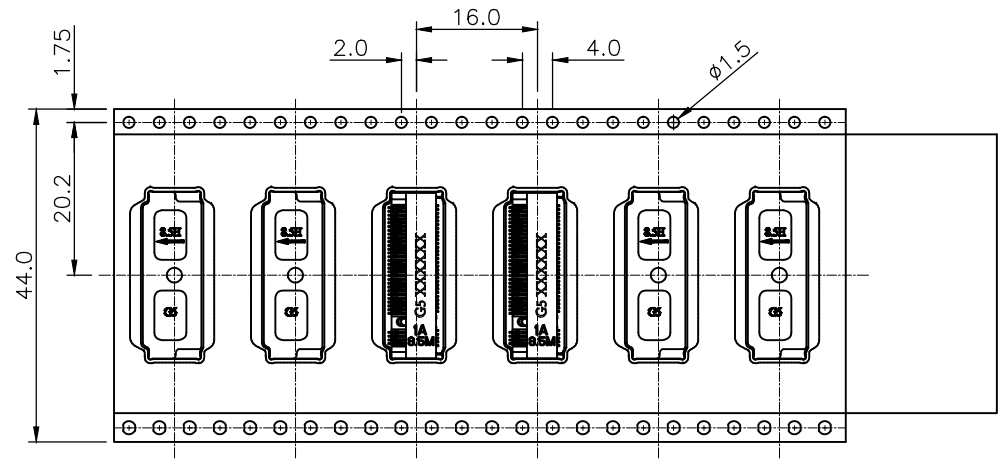
UNLESS OTHERWISE SPECIFIED TOLERANCE				 www.attend.com.tw
UNIT:	DECIMAL	LINEAR	ANGLES	
mm	X.	±0.50	±5°	
	X.X	±0.25	±3°	
	X.XX	±0.12	±1°	
DRAWN	Fros	2024/09/05	DRAWN NAME:	
CHECKED	Tim	2024/09/05	M.2 Gen5 Socket, H8.5 M Key 0.5 Pitch G/F, Black, Reel	
APPROVED	Ken	2024/09/05	PRODUCT NO. 123A-85M02	
SCALE	N/A	SHEET 4/4	SIZE A4	FILE NAME 123A-85M02_B_1

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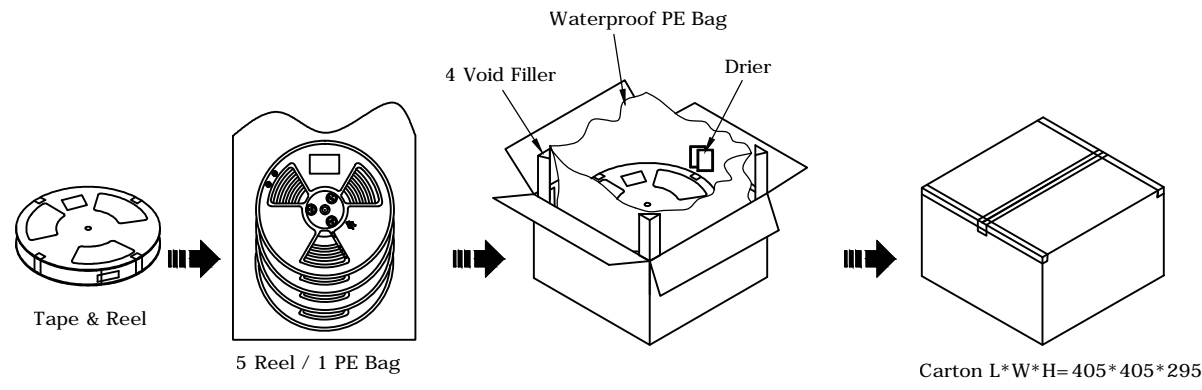



PACKAGING SPECIFICATION:

- MATERIAL
 - Embossed Carrier Tape: PS Black
 - Top Cover Tape: PET 20-80g (Peel Speed 300mm/Minute)
 - Taping Reel: Plastic
- PACKING



PART NO.	PCS/REEL	REEL/CARTON	PCS/ CARTON
123A-85B02	500	5	2500
123A-85E02			
123A-85M02			



UNLESS OTHERWISE SPECIFIED TOLERANCE					
UNIT:	DECIMAL	LINEAR	ANGLES		
mm	X.	±0.50	±5°	www.attend.com.tw	
	X.X	±0.25	±3°		
	X.XX	±0.12	±1°		
DRAWN	Fros	2024/09/05	DRAWN NAME: PACKING, M.2 Gen5 Socket, H8.5		
CHECKED	Tim	2024/09/05			
APPROVED	Ken	2024/09/05	PRODUCT NO.		
SCALE	1/1	SHEET 1/1	SIZE A4	FILE NAME 123A-85X02_D_1	