

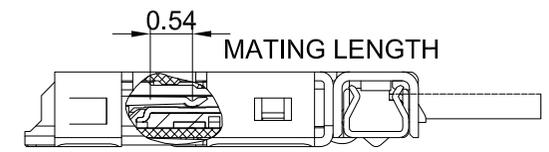
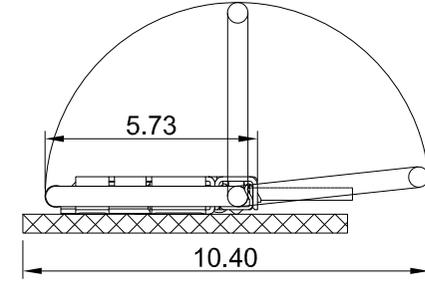
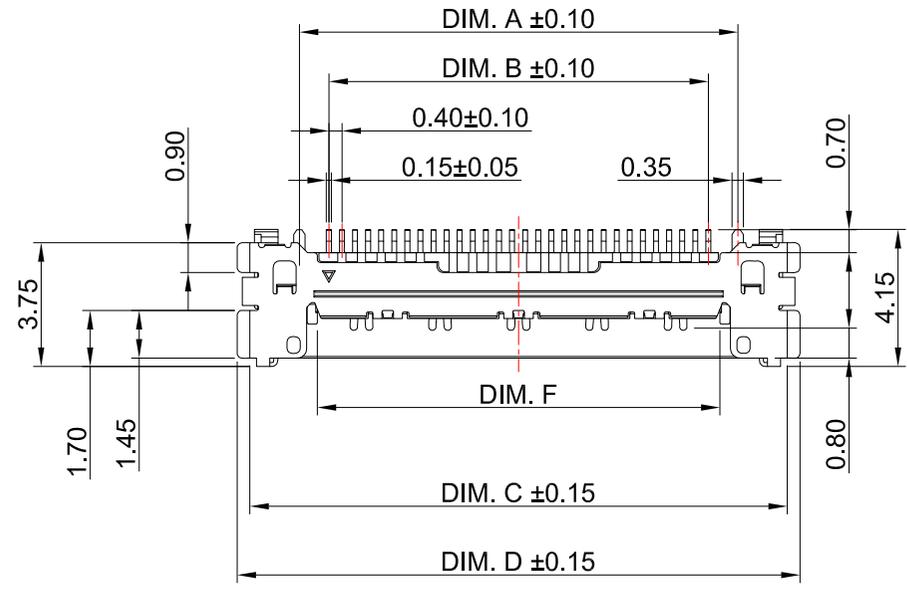
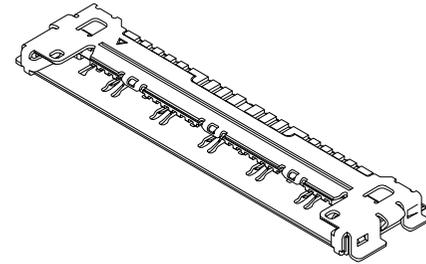
Pin No.	Dim. A	Dim. B	Dim. C	Dim. D	Dim. E
10	5.40	3.60	8.43	9.20	4.30
12	6.20	4.40	9.23	10.00	5.10
20	9.40	7.60	12.43	13.20	8.30
30	13.40	11.60	16.43	17.20	12.30
40	17.40	15.60	20.43	21.20	16.30
50	21.40	19.60	24.43	25.20	20.30
60	25.40	23.60	28.43	29.20	24.30

REV.	DESCRIPTION	DATE	DRAWN
A	NEW	04.30.2024	Tom
B	ADDING PLATING OPTION NUMBER	06.05.2024	Tom

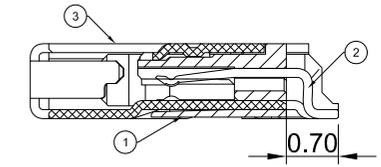
Order Code
MCS-PN-R100-1XX-5X-LR-IPX



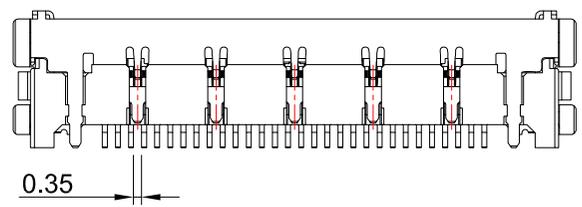
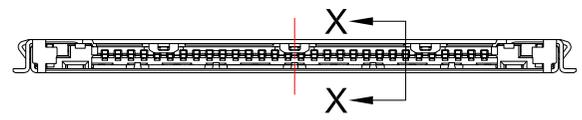
Pin No. Contact Plating
 10= 10 Pin 5 = Gold Flash Plating
 20= 20 Pin 6 = 4u" Gold Plating
 60= 60 Pin



MATING CONDITION



SECT. X-X
SCALE 10 : 1



MATERIAL

3	Shell	Phosphor Bronze, Nickel Plating	1
2	Contact	Phosphor Bronze, Gold Plating	xx
1	Insulator	LCP UL 94V-0, Black	1
No.	Part Name	Specifications	Qt'y

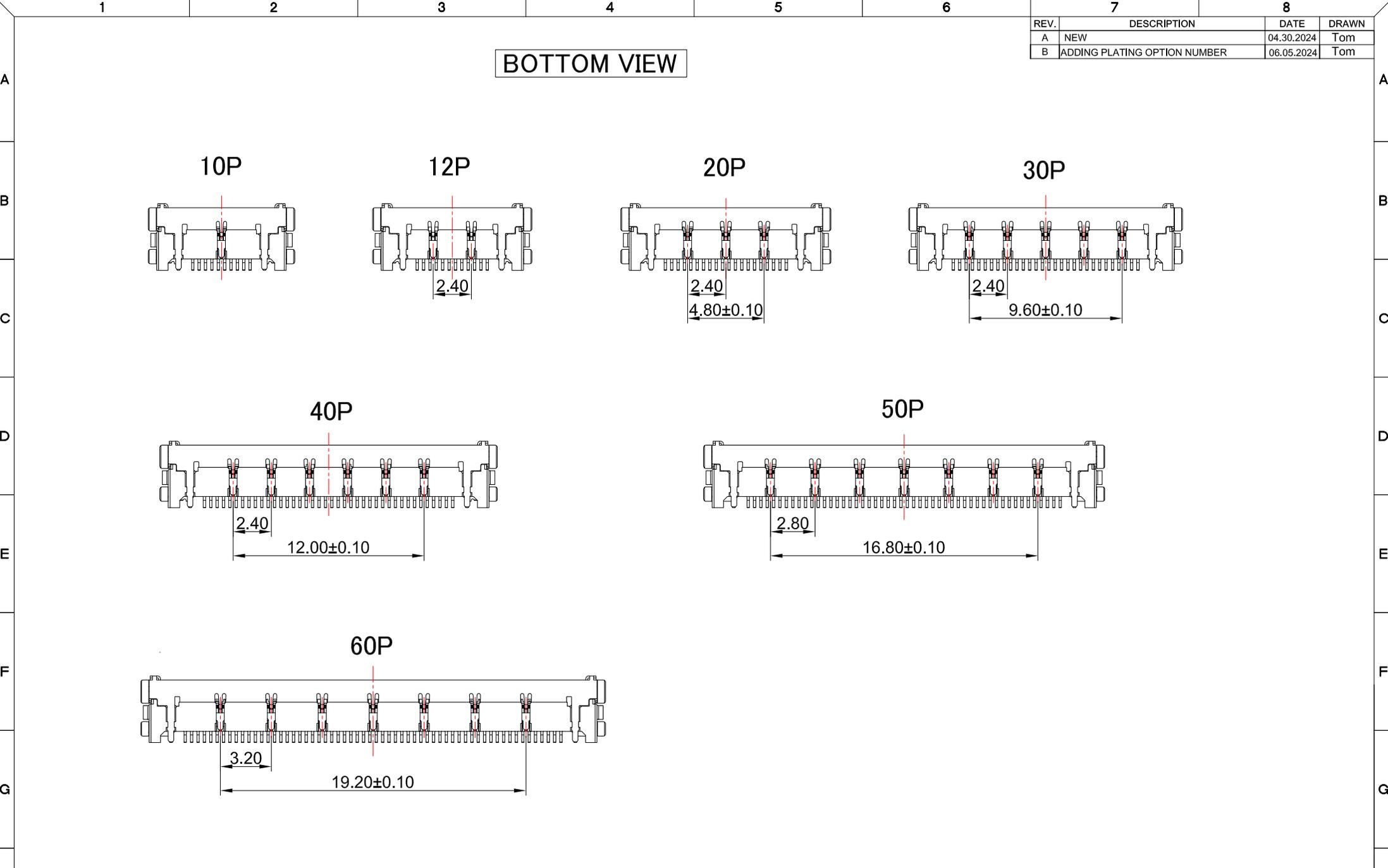


UNIT	mm	GENERAL TOLERANCE		DRAWN	DATE	DWG. NO.	SHEET 1/4
SCALE	Free	DIMENSION	TOLERANCE	Tom	06.05.2024	MCS-PN-R100-1XX-5X-LR-IPX	REV. B
		0~ ≤6	±0.20	CHECK	DATE	SERIES NO.	
		6~ ≤30	±0.30	Jerry	06.05.2024	MCS-PN-R100-1XX-5X-LR-IPX	
		30~ ≤120	±0.50	APPROVE	DATE		
				PAUL	06.05.2024		

**0.4mm Pitch Micro Coaxial
PCB Receptacle,
SMT R/A, "Reel Packing"**

REV.	DESCRIPTION	DATE	DRAWN
A	NEW	04.30.2024	Tom
B	ADDING PLATING OPTION NUMBER	06.05.2024	Tom

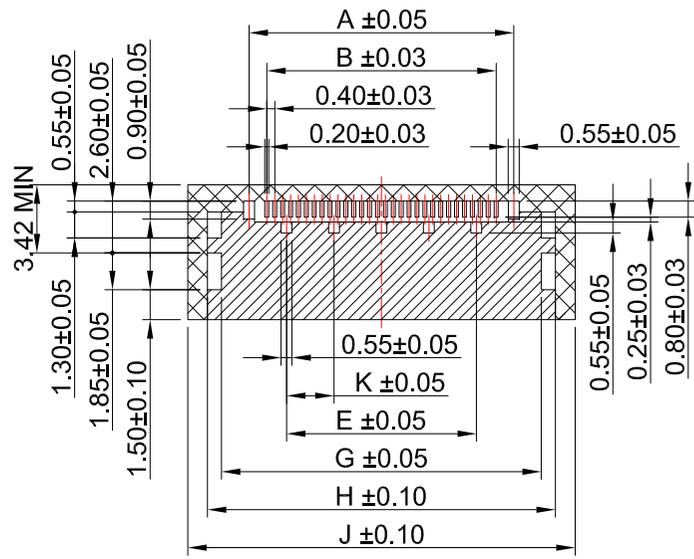
BOTTOM VIEW



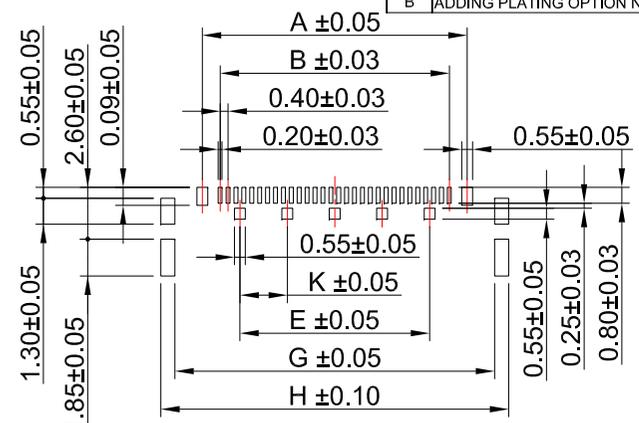
UNIT mm	GENERAL TOLERANCE		DRAWN Tom	DATE 06.05.2024	DWG. NO. MCS-PN-R100-1XX-5X-LR-IPX	SHEET 2/4
	SCALE Free	DIMENSION	TOLERANCE	CHECK Jerry	DATE 06.05.2024	REV. B
		0~ ≤6	±0.20	APPROVE PAUL	DATE 06.05.2024	SERIES NO. MCS-PN-R100-1XX-5X-LR-IPX
		6~ ≤30	±0.30			
	30~ ≤120	±0.50				

**0.4mm Pitch Micro Coaxial
PCB Receptacle,
SMT R/A, "Reel Packing"**

REV.	DESCRIPTION	DATE	DRAWN
A	NEW	04.30.2024	Tom
B	ADDING PLATING OPTION NUMBER	06.05.2024	Tom

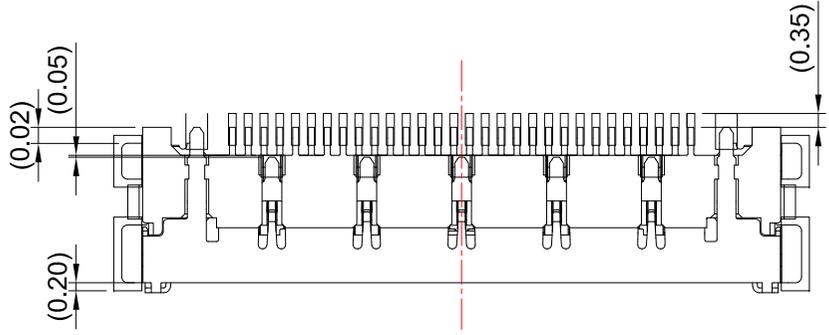


(RECOMMENDED FOOTPRINT PATTERN)



PCB LAYOUT

ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG# 44 , 42 , 40 , 38 , 36 DISCRETE WIRE : AWG# 36 , 34 TWIAX CABLE : AWG# 40 , 42
RATING VOLTAGE	100V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR CONTACT)	0.1A AC/DC [AWG#44] PER CONTACT PIN/UP TO 60 CONTACTS 0.24A AC/DC [AWG#42] PER CONTACT PIN/UP TO 50 CONTACTS 0.3A AC/DC [AWG#40] PER CONTACT PIN/UP TO 40 CONTACTS 0.5A AC/DC [AWG#38] PER CONTACT PIN/UP TO 14 CONTACTS 0.8A AC/DC [AWG#36] PER CONTACT PIN/UP TO 6 CONTACTS 1.0A AC/DC [AWG#34] PER CONTACT PIN/UP TO 4 CONTACTS ※TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE RISE MAY AFFECTED BY ACTUAL SITUATION.
OPERATING TEMPERATURE	233~358K (-40°C~85°C)
OPERATING HUMIDITY	85% MAX. (NON-CONDENSING)
CONTACT RESISTANCE	INITIAL : 180mohm MAX. (AWG#34) / AFTER TEST : $\leq 140\text{mohm}$ MAX. 275mohm MAX. (AWG#36) 380mohm MAX. (AWG#38) 600mohm MAX. (AWG#40) 700mohm MAX. (AWG#42) 1080mohm MAX. (AWG#44)
GROUND SHELL RESISTANCE	INITIAL : 50mohm MAX. / AFTER TEST : $\leq 40\text{mohm}$ MAX.
INSULATION RESISTANCE	INITIAL : 1000mohm MIN. / AFTER TEST : 500mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL / AFTER 30 CYCLES)	10P : 7.80N MAX. 40P : 19.40N MAX. 12P : 8.20N MAX. 50P : 24.25N MAX. 20P : 9.70N MAX. 60P : 29.10N MAX. 30P : 14.55N MAX.
UNMATING FORCE (INITIAL / AFTER 30 CYCLES)	10P : 1.00N MIN. 40P : 4.00N MIN. 12P : 1.20N MIN. 50P : 5.00N MIN. 20P : 2.00N MIN. 60P : 6.00N MIN. 30P : 3.00N MIN.
CABLE RETENTION FORCE	10P : 4.90N MIN. 40P : 19.60N MIN. 12P : 5.88N MIN. 50P : 24.50N MIN. 20P : 9.80N MIN. 60P : 29.40N MIN. 30P : 14.70N MIN.
COPLANARITY	0.10 MAX.



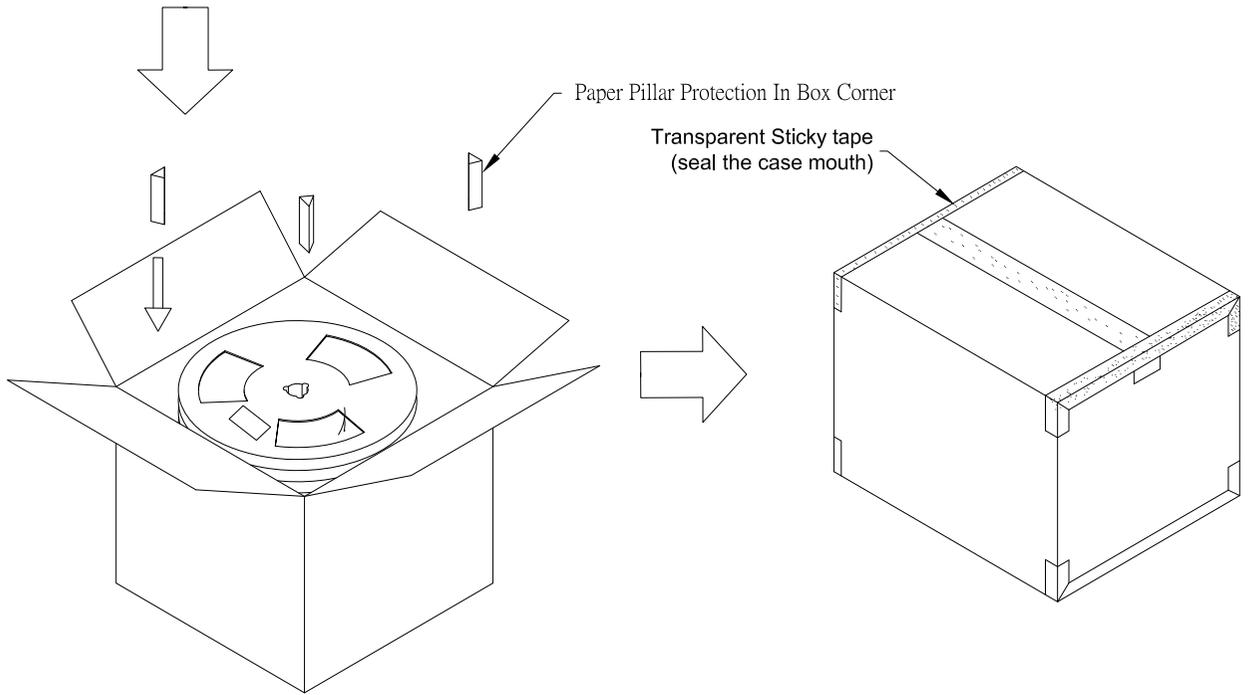
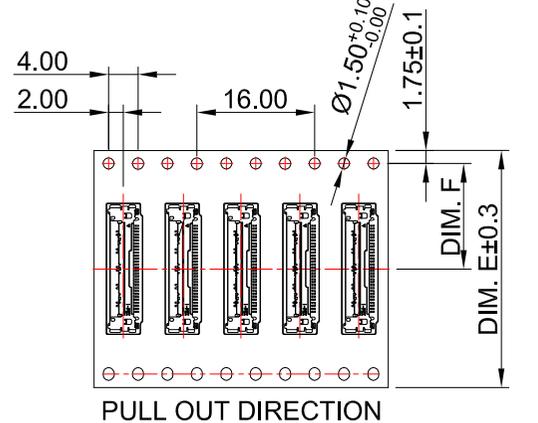
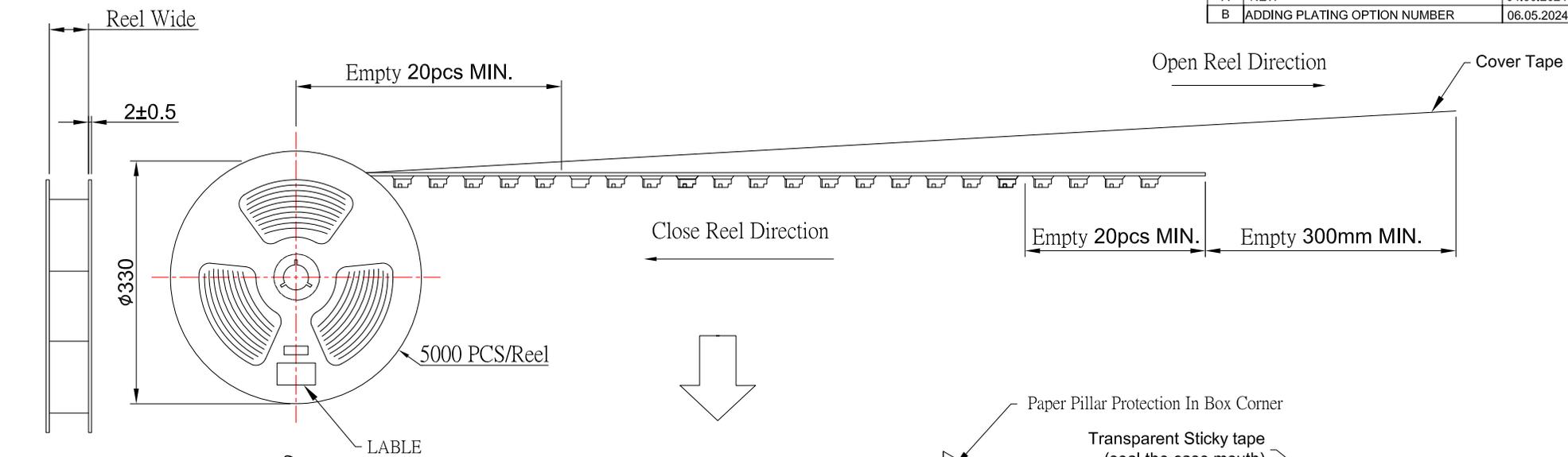
(CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN)



UNIT mm	GENERAL TOLERANCE		DRAWN	DATE	DWG. NO.	SHEET 3/4
	SCALE Free	DIMENSION	TOLERANCE	Tom	06.05.2024	MCS-PN-R100-1XX-5X-LR-IPX
		0~ ≤6	±0.20	CHECK	DATE	REV. B
		6~ ≤30	±0.30	Jerry	06.05.2024	SERIES NO.
	30~ ≤120	±0.50	APPROVE	DATE	MCS-PN-R100-1XX-5X-LR-IPX	
	PAUL	06.05.2024				

**0.4mm Pitch Micro Coaxial
PCB Receptacle,
SMT R/A, "Reel Packing"**

REV.	DESCRIPTION	DATE	DRAWN
A	NEW	04.30.2024	Tom
B	ADDING PLATING OPTION NUMBER	06.05.2024	Tom



Packing List:

Pin No.	DIM. E	DIM. F	PCS/REEL	REEL/BOX	BOX/PCS
10	24	11.50	5000	5	25000
12	24	11.50	5000	5	25000
20	24	11.50	5000	5	25000
30	32	14.20	5000	4	20000
40	32	14.20	5000	4	20000
50	44	20.20	5000	3	15000
60	44	20.20	5000	3	15000



UNIT mm	GENERAL TOLERANCE		DRAWN Tom	DATE 06.05.2024	DWG. NO. MCS-PN-R100-1XX-5X-LR-IPX	SHEET 4/4	
	SCALE Free	DIMENSION					TOLERANCE
		0~ ≤6	±0.20	APPROVE PAUL	DATE 06.05.2024	SERIES NO. MCS-PN-R100-1XX-5X-LR-IPX	
		6~ ≤30	±0.30				
	30~ ≤120	±0.50					

**0.4mm Pitch Micro Coaxial
PCB Receptacle,
SMT R/A, "Reel Packing"**