REV.	DESCRIPTION	ECN NO.	NAME	DATE
3	UPDATE DRAWING	N/A	Wayne	2026/8/21

ALL PARTS MUST MEET TO RoHS REQUIREMENTS

NOTES:

1.MATERIALS AND FINISH:
HOUSING: PA10T 30%GF.
BODY: ZINC ALLOY, MATTE TIN PL. 100u"MIN.
OVER NICKEL PL. 50u"MIN.THICK OVER COPPER STRIKE.
INSULATOR: LCP.
TERMINAL: BRASS,CONTACT AREA: Au PL. 5u".
OVER Ni PL. 50u" Min.THICK OVER COPPER STRIKE.

2.ELECTRICAL DATA:
A.IMPEDANCE:50 Ω;
B.FREQUENCY RANGE:DC to 9GHz;
C.RETURN LOSS REQUIREMENT

FREQUENCY,GHz	RETURN LOSS	VSWR
0.01＜f ⩽ 2	＜ -17.5 dB	＜1.30
2＜f ⩽ 6	＜ -14.0 dB	＜ 1.50
6＜f ⩽ 7	＜ -12.0 dB	＜ 1.65
7＜f ⩽ 9	＜ -10.0 dB	＜ 1.90

D.CROSSTALK

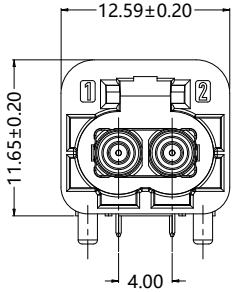
FREQUENCY	NEXT LIMIT
0.01 GHz<f≤4GHz	60 dB
4 GHz<f≤9GHz	50 dB

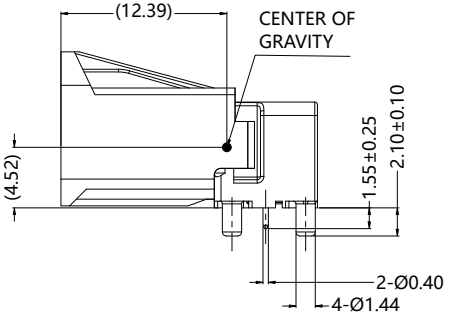
E.INSULATION RESISTANCE: ≥1X10³ MΩ;
F.TEST VOLTAGE : 800 V rms
G.WORKING VOLTAGE : 60 V DC
H.CURRENT RATING : ≤1 A DC

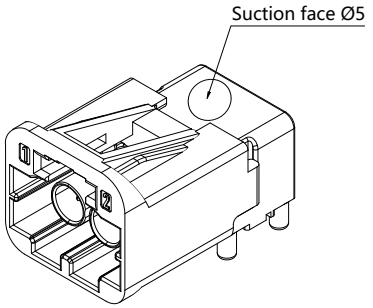
3.MECHANICAL DATA:
A.MATING CYCLES:≥25 ;
B.ENGAGEMENT FORCE: ≤ 30N ;
C.DISENGAGEMENT FORCE: ≥ 5N ;
D.RETENTION FORCE LATCH:≥110N.

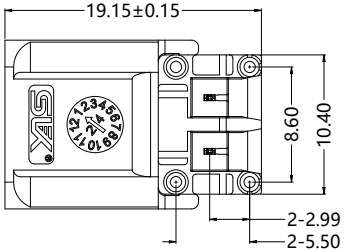
4.ENVIRONMENTAL DATA :
A.TEMPERATURE RANGE:-40°C To +105°C

5. THE MAXIMUM SOLDERING PEAK IS 260℃/10S
QUALIFIED FOR TWO REFLOW SOLDERING CYCLES

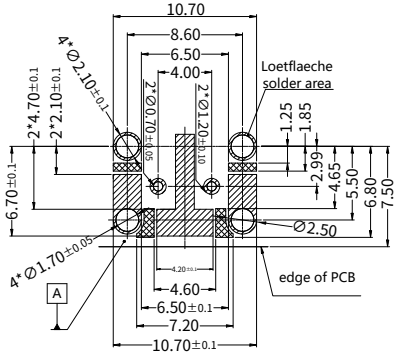








CODE TABLE			
Code	DRAWING NUMBER	Color	RAL NO.
A	5MK2M2AR-P42-101	Black	9005
B	5MK2M2BR-P42-101	White	9010
C	5MK2M2CR-P42-101	Blue	5012
D	5MK2M2DR-P42-101	Bordeauxviolet	4004
E	5MK2M2ER-P42-101	Green	6017
F	5MK2M2FR-P42-101	Brown	8011
G	5MK2M2GR-P42-101	Grey	7036
H	5MK2M2HR-P42-101	Light pink	3015
J	5MK2M2JR-P42-101	Beige	1001
K	5MK2M2KR-P42-101	Curry	1027
N	5MK2M2NR-P42-101	Pastel green	6019
Z	5MK2M2ZR-P42-101	Waterblue	5021



solder area 7x
stand off area, free of solder 4x
all drill holes 6x

The stated dimension are only recommendations

CUSTOMER OUTLINE DRAWING

UNLESS OTHERWISE SPECIFIED:
1) EDGES: C0.20 MAX.
2) REMOVE ALL BURRS;
3) SURFACE ROUGHNESS: Ra0.8
4) UNITS: mm
5) DIMENSIONS TOLERANCES
DECIMALS: .x±0.3, .xx±0.2, .xxx±0.1
ANGLES: ±5° AXIALITY: 0.20

THIRD ANGLE PROJECTION		CUSTOMER P/N:	
APPROVE:	APPROVED	PNUM:	
STANDARD:	STANDARDS	LIFT STAGE:	LIANGCHAN
PROCESS:	PROCESSES	SCALE:	2:1
CHECK:	CHECKED	FRAME:	A4
DRAWING:	Wayne	PAGE:	1/2
		DATE:	2026/8/21

TITLE: Mini-FAK 2 Way PCB Connector 90
PRODUCT P/N: 5MK2M2*R-P42-101
WEBSITE : www.slkcorp.com

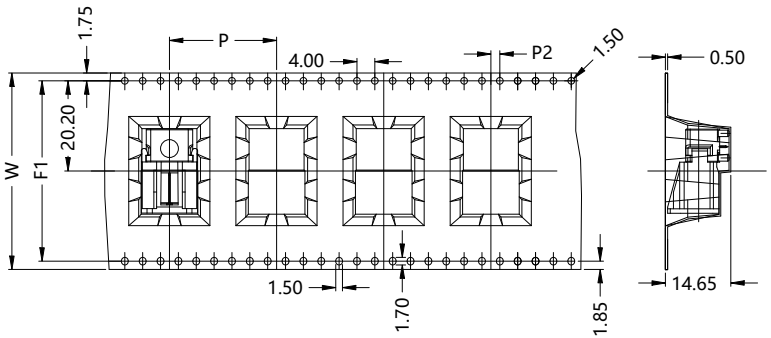
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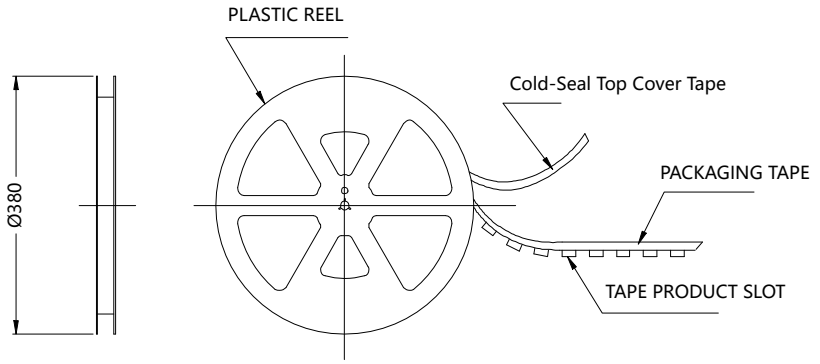
NOTES:
1.SINGLE PRODUCT WEIGHT:4.29g/PCS
PACKAGE STYLE: 250PCS/REEL,1750PCS/BOX(9.5Kg)
ORIGIN:SLK

■Reel Dimensions Diagram (Based on EIA-481-C Standard).

REEL TYPE II



■ Plastic Reel Specifications (Based on EIAJ ET-7200B)



■ Size table (packaging tape, plastic reel packaging)

SLK P/N	PRODUCT SPECIFICATIONS	REEL TYPE	W	F1	P	P2	1 Reel pack quantity
5MK2M2*R-P42-101	MINI FAKRA PLUG R/A	TYPE II	44.0	40.4	24	2	250pcs

CUSTOMER OUTLINE DRAWING

UNLESS OTHERWISE SPECIFIED:
1) EDGES: C0.10 MAX.
2) REMOVE ALL BURRS;
3) SURFACE ROUGHNESS: Ra1.6
4) UNITS: mm
5) DIMENSIONS TOLERANCES
DECIMALS: .x±0.2, .xx±0.1, .xxx±0.05
ANGLES: ±3° AXIALITY: 0.03

THIRD ANGLE PROJECTION		CUSTOMER P/N:	
APPROVE:	APPROVED	PNUM:	
STANDARD:	STANDARDS	LIFT STAGE:	LIANGCHAN
PROCESS:	PROCESSES	SCALE:	1:1.5
CHECK:	CHECKED	FRAME:	A4
DRAWING:	Wayne	PAGE:	2/2
		DATE:	2026/8/21

TITLE: Mini-FAK 2 Way PCB Connector 90
PRODUCT P/N: 5MK2M2*R-P42-101
WEBSITE : www.slkcorp.com