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. 100u".THICK OVER COPPER STRIKE.
- INSULATOR: LCP.
- TERMINAL: BRASS, CONTACT AREA: Au PL. 5u". OVER Ni PL. 50u" Min.THICK OVER COPPER STRIKE.
- REAR COVER: ZINC ALLOY, MATTE TIN PL. 100u"MIN. OVER NICKEL PL. 100u".THICK OVER COPPER STRIKE.
- KEY: PA6T 30%GF

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

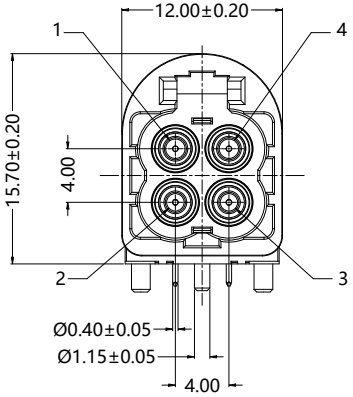
FREQUENCY	NEXT LIMIT
0.01 GHz<f≤4GHz	60 dB
4 GHz<f≤9GHz	50 dB

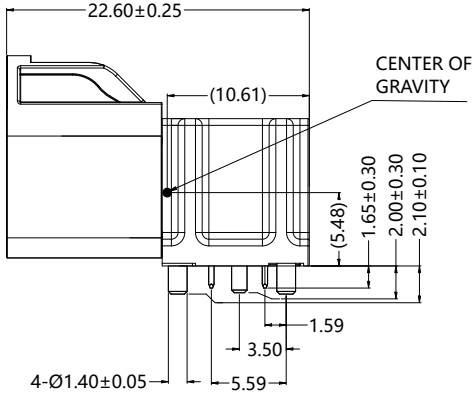
- E.INSULATION RESISTANCE: ≥1X10³ MΩ;
- F.TEST VOLTAGE : 800 V rms
- G.WORKING VOLTAGE : 60 V DC
- H.CURRENT RATING : ≤1 A DC

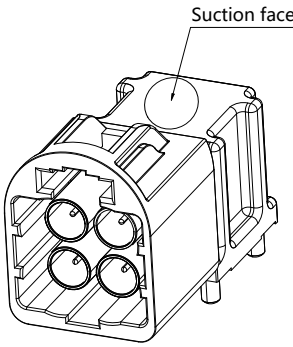
3.MECHANICAL DATA:
- A.MATING CYCLES:≥25 ;
- B.ENGAGEMENT FORCE: ≤ 45N ;
- C.DISENGAGEMENT FORCE: ≥ 5N ;
- D.RETENTION FORCE LATCH:≥110N.

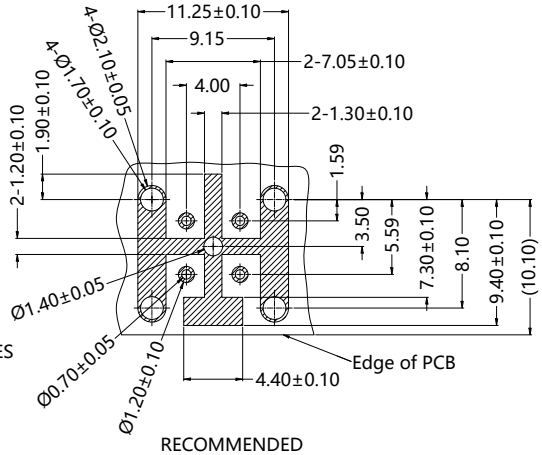
4.ENVIRONMENTAL DATA :
- A.TEMPERATURE RANGE:-40°C To +105°C

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

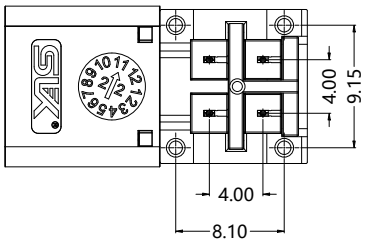








RECOMMENDED PCB LAYOUT



CODE TABLE

Code	DRAWING NUMBER	Color	RAL NO.
A	5MKM2AR-P54-001	Black	9005
B	5MKM2BR-P54-001	White	9010
C	5MKM2CR-P54-001	Blue	5012
D	5MKM2DR-P54-001	Bordeauxviolet	4004
E	5MKM2ER-P54-001	Green	6017
F	5MKM2FR-P54-001	Brown	8011
G	5MKM2GR-P54-001	Grey	7036
H	5MKM2HR-P54-001	Light pink	3015
J	5MKM2JR-P54-001	Beige	1001
K	5MKM2KR-P54-001	Curry	1027
N	5MKM2NR-P54-001	Pastel green	6019
Z	5MKM2ZR-P54-001	Waterblue	5021

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 4 way PCB Connector 90

PRODUCT P/N: 5MKM2*R-P54-001

WEBSITE : www.slkcorp.com

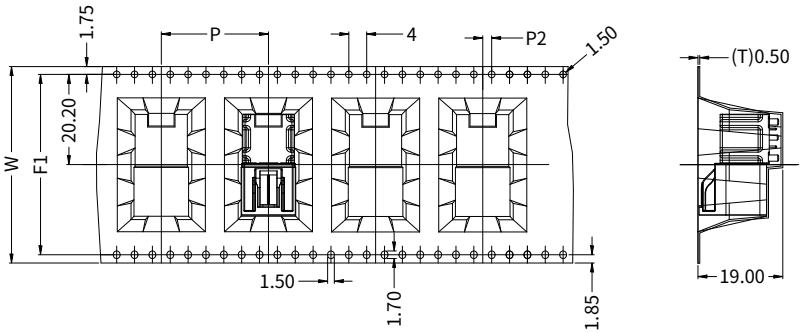
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ALL PARTS MUST MEET TO RoHS REQUIREMENTS

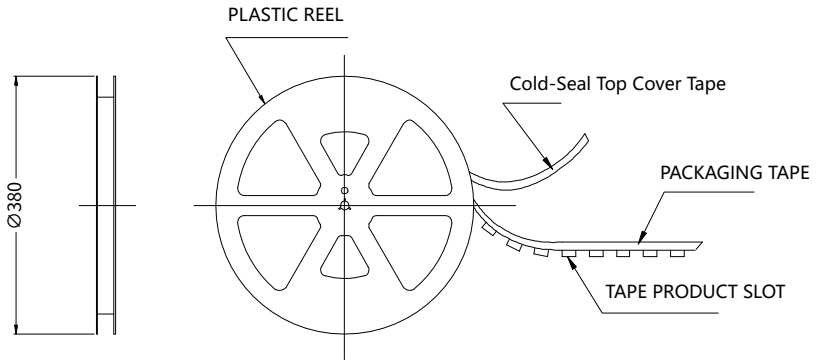
NOTES:
1.SINGLE PRODUCT WEIGHT:8.3g/PCS
PACKAGE STYLE: 180PCS/REEL,1260PCS/BOX(13Kg)
ORIGIN:SLK

■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
5MKM2*R-P54-001	MINI FAKRA PLUG R/A	TYPE II	44.0	40.4	24	2	180pcs

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:	PNUM:
STANDARD:	LIFT STAGE: LIANGCHAN
PROCESS:	SCALE: 1:1.5
CHECK:	FRAME: A4
DRAWING: Wayne	PAGE: 2/2
	DATE: 2026/8/21

TITLE: Mini-FAK 4 way PCB Connector 90
PRODUCT P/N: 5MKM2*R-P54-001
WEBSITE : www.slkcorp.com