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

CODDATE

CODSIGN

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"MIN.THICK OVER COPPER STRIKE.
- INSULATOR: PTFE.
- TERMINAL: BRASS, CONTACT AREA: Au PL. 5u".
  OVER Ni PL. 100u" Min.

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 ;

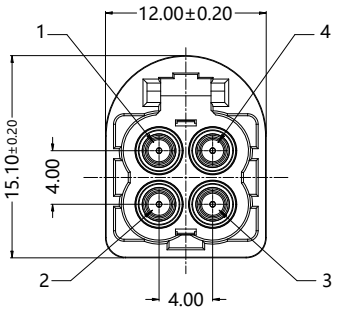
C.DISENGAGEMENT FORCE: ≥ 5N ;

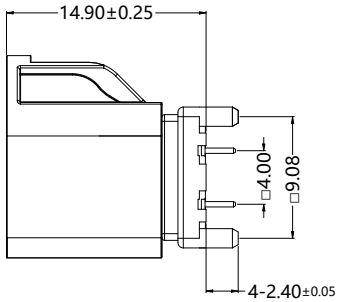
D.RETENTION FORCE LATCH:≥110N.

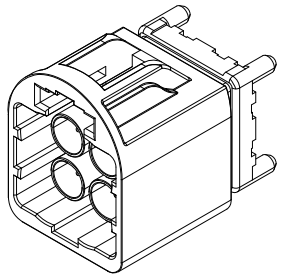
4.ENVIRONMENTAL DATA :

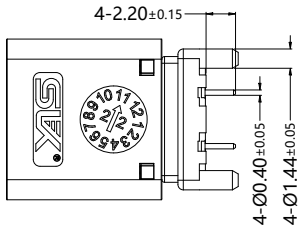
A.TEMPERATURE RANGE:-40°C To +105°C

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

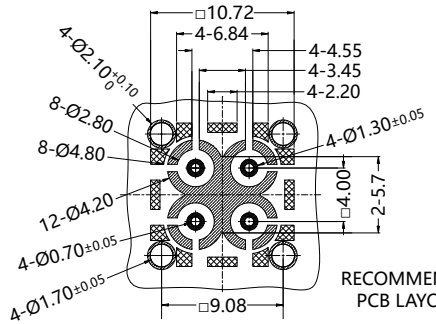








CODE TABLE			
Code	DRAWING NUMBER	Color	RAL NO.
A	5MK4M2AS-P54-100	Black	9005
B	5MK4M2BS-P54-100	White	9010
C	5MK4M2CS-P54-100	Blue	5012
D	5MK4M2DS-P54-100	Bordeauxviolet	4004
E	5MK4M2ES-P54-100	Green	6017
F	5MK4M2FS-P54-100	Brown	8011
G	5MK4M2GS-P54-100	Grey	7036
H	5MK4M2HS-P54-100	Light pink	3015
J	5MK4M2JS-P54-100	Beige	1001
K	5MK4M2KS-P54-100	Curry	1027
N	5MK4M2NS-P54-100	Pastel green	6019
Z	5MK4M2ZS-P54-100	Waterblue	5021



RECOMMENDED PCB LAYOUT

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: 0.25

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 4way male PCB Connector 180

PRODUCT P/N: SEE CODE TABLE
5MK4M2*S-P54-100

WEBSITE : www.slkcorp.com | PLM V2.3

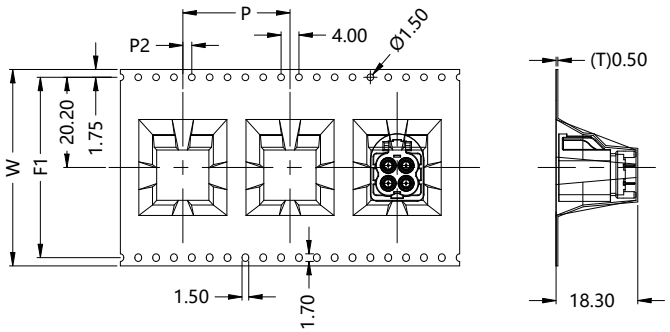
REV.	DESCRIPTION	ECN NO.	NAME	DATE
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ALL PARTS MUST MEET TO RoHS REQUIREMENTS

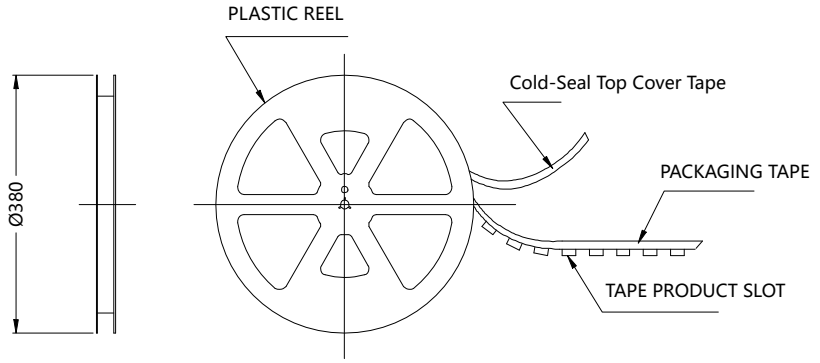
NOTES:
1.SINGLE PRODUCT WEIGHT:4.02g/PCS
PACKAGE STYLE: 180PCS/REEL,1260PCS/BOX(7Kg)
ORIGIN:SLK

■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
5MK4M2*S-P54-100	MINI FAKRA PLUG S/T	TYPE II	44.0	40.4	24	2	180pcs

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 4way male PCB Connector 180
PRODUCT P/N: 5MK4M2*S-P54-100
WEBSITE : www.slkcorp.com

CUSTOMER OUTLINE DRAWING