
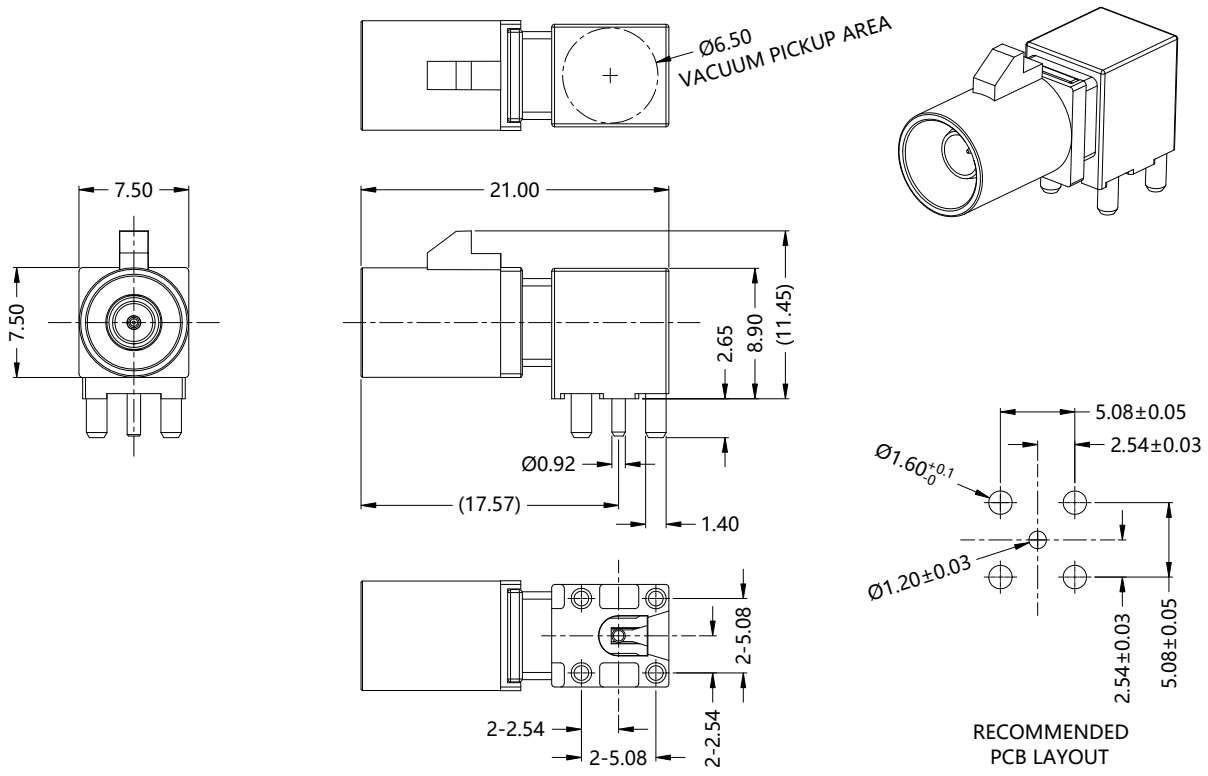


REV.	DESCRIPTION	ECN NO.	NAME	DATE	 ALL PARTS MUST MEET TO RoHS REQUIREMENTS
0	FIRST EDITION	N/A	Ming	2022-08-12	



MATERIALS AND PLATING		UNIT: MICRO-INCHES
PART NAME	MATERIALS	PLATING
BODY	ZINC ALLOY	TIN PLATING THICK 100u"
INSULATOR	HTN 15%GF	N/A
CONTACT PIN	BRASS	PL.GOLD3u"/COPPER
SHELL	PA66 30GF%	N/A

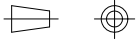
ELECTRICAL CHARACTERISTICS	
IMPEDANCE	50 Ω
VOLTAGE RATING	250 V(rms)
FREQUENCY RANGE	0 ~ 6 GHz
DIELECTRIC WITHSTANDING VOLTAGE	> 800 V
CONTACT RESISTANCE	CENTER CONTACT
	OUTER CONTACT
INSULATION RESISTANCE	> 1000 MΩ
INSERTION LOSS	< 0.15 * √ f GHz
VSWR	< 1.40 @ DC~2 GHz < 1.50 @ 2~3 GHz < 1.60 @ 3~6 GHz
3RD INTERMODULATION	N/A

MECHANICAL CHARACTERISTICS	
MATING FORCE	≤ 25 N
DISENGAGEMENT FORCE	≥ 2N
CONNECTOR DISENGAGE WITH LOCK	≥ 110N
UNMATING FORCE WITH LOCK DISENGAGED	≤ 75 N
DURABILITY	≥ 100cycles

ENVIRONMENTAL PARAMETER	
TEMPERATURE RANGE	-40 °C ~ +105 °C

**\* CUSTOMER OUTLINE DRAWING**


UNLESS OTHERWISE SPECIFIED:  
 1) EDGES : C0.15 MAX ;  
 2) REMOVE ALL BURRS ;  
 3) SURFACE ROUGHNESS : Ra1.6 ;  
 4) UNITS : mm ;  
 5) DIMENSIONS TOLERANCES  
 DECIMALS : .x ±0.3 .xx ±0.2 .xxx±0.1;  
 ANGLES : ± 5°.












THIRD ANGLE PROJECTION		
APPROVED :	CUSTOMER P/N :	
CHECKED :	SCALE :	
DRAWING :	DATE :	
PAGE : 1/2		



TITLE : FAKRA PLUG R/A FOR PCB WITH PCB HOUSING  
 DRAWING NO. : 5FKM2\*R-P41-007  
 COMPANY WEBSITE : www.slkcorp.com

CUSTOMER OUTLINE DRAWING

REV.	DESCRIPTION	ECN NO.	NAME	DATE	 ALL PARTS MUST MEET TO RoHS REQUIREMENTS
0	FIRST EDITION	N/A	Ming	2022-08-12	

Mechanical and Color Coding		
SLK P/N	Color	Coding
5FKM2AR-P41-007	Deep Black	A 
5FKM2BR-P41-007	Signal White	B 
5FKM2CR-P41-007	Signal Blue	C 
5FKM2DR-P41-007	Bordeaux Violet	D 
5FKM2ER-P41-007	Leaf Green	E 
5FKM2FR-P41-007	Brown	F 
5FKM2GR-P41-007	Blue Grey	G 
5FKM2HR-P41-007	Heather Violet	H 
5FKM2IR-P41-007	Beige	I 
5FKM2KR-P41-007	Curry Yellow	K 
5FKM2ZR-P41-007	Water Blue	Z 

MATERIALS AND PLATING		UNIT: MICRO-INCHES
PART NAME	MATERIALS	PLATING
BODY	ZINC ALLOY	TIN PLATING THICK 100u"
INSULATOR	HTN 15%GF	N/A
CONTACT PIN	BRASS	PL.GOLD3u"/COPPER
SHELL	PA66 30GF%	N/A


ELECTRICAL CHARACTERISTICS	
IMPEDANCE	50 Ω
VOLTAGE RATING	250 V(rms)
FREQUENCY RANGE	0 ~ 6 GHz
DIELECTRIC WITHSTANDING VOLTAGE	>800 V
CONTACT RESISTANCE	CENTER CONTACT <5.0 mΩ
	OUTER CONTACT <2.5 mΩ
INSULATION RESISTANCE	>1000 MΩ
INSERTION LOSS	<0.15 * √ f GHz
VSWR	<1.40 @ DC~2 GHz <1.50 @ 2~3 GHz <1.60 @ 3~6 GHz
3RD INTERMODULATION	N/A

MECHANICAL CHARACTERISTICS	
MATING FORCE	≤ 25 N
DISENGAGEMENT FORCE	≥2N
CONNECTOR DISENGAGE WITH LOCK	≥110N
UNMATING FORCE WITH LOCK DISENGAGED	≤ 75 N
DURABILITY	≥100cycles

ENVIRONMENTAL PARAMETER	
TEMPERATURE RANGE	-40 °C~+105 °C

\* CUSTOMER OUTLINE DRAWING

UNLESS OTHERWISE SPECIFIED:  
 1) EDGES : C0.15 MAX ;  
 2) REMOVE ALL BURRS ;  
 3) SURFACE ROUGHNESS : Ra1.6 ;  
 4) UNITS : mm ;  
 5) DIMENSIONS TOLERANCES  
 DECIMALS : .x ±0.3 .xx ±0.2 .xxx±0.1;  
 ANGLES : ± 5°.

THIRD ANGLE PROJECTION 	
APPROVED :	CUSTOMER P/N :
CHECKED :	SCALE : 1 : 1
DRAWING :	DATE : 2022-08-12
PAGE : 2/2	



TITLE : FAKRA PLUG R/A FOR PCB WITH PCB HOUSING  
 DRAWING NO. : 5FKM2\*R-P41-007  
 COMPANY WEBSITE : www.slkcorp.com

CUSTOMER OUTLINE DRAWING