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RoHS Compliance

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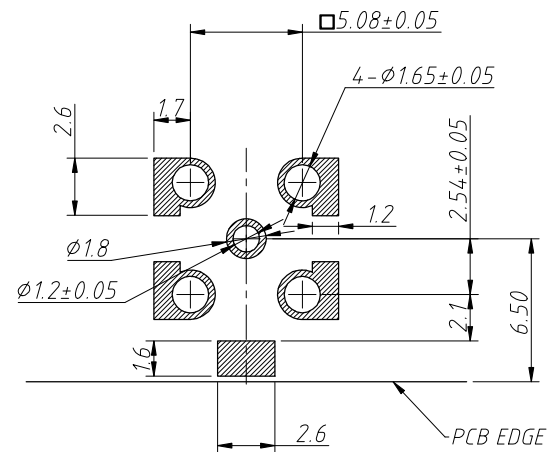
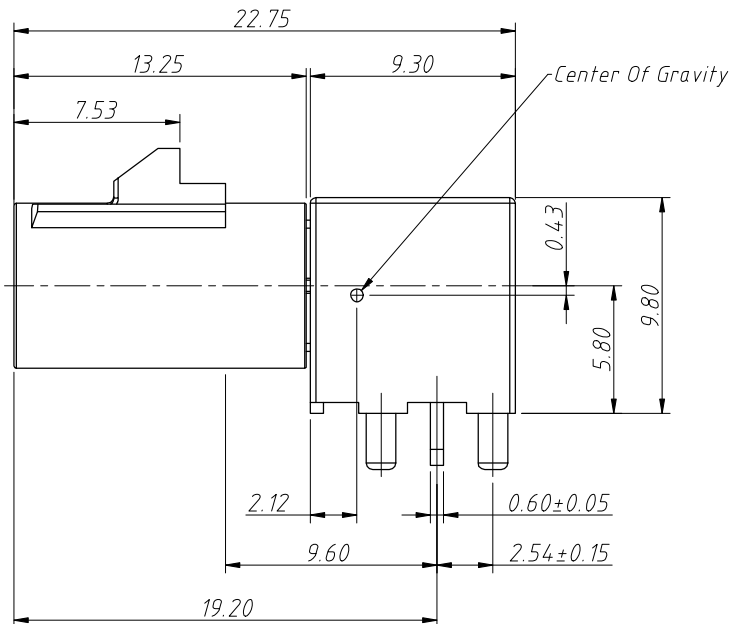
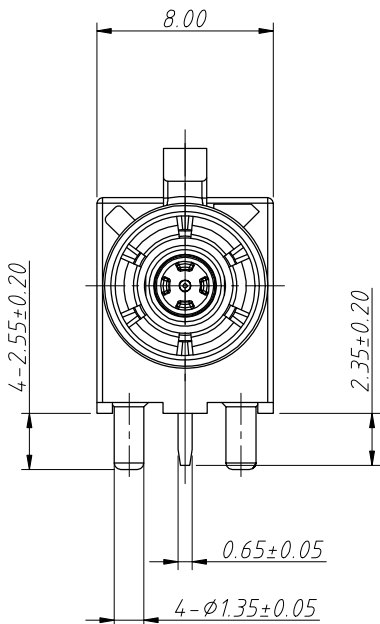
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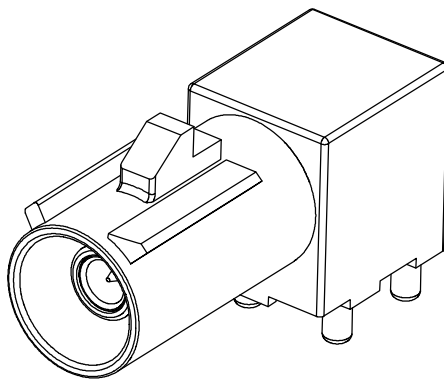
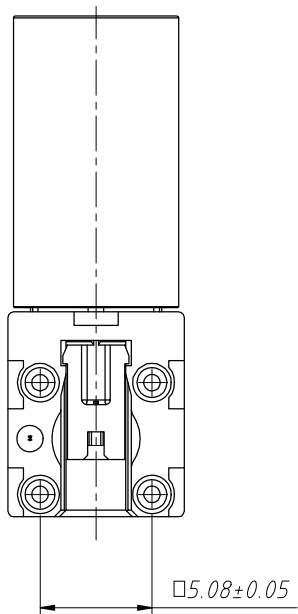
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Recommended PCB Layout
Tolerance:±0.05mm



ANGLE TOLERANCE		PROJECTION		Description:	
±3°				Right Angle Plug Fakra Connector	
GENERAL TOLERANCE		UNITS	mm	KLS P/N:	L-KLS1-FAKRA05-X-XXXX-1
x.x	±0.30	SHEET SIZE	A4	1 Of 2	NingBo KLS ELECTRONIC CO.,L TD.
x.xx	±0.20	Draw:	Daniel	2023-05-04	
x.xxx	±0.10	Check:	Daniel	2023-05-04	

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RoHS Compliance

Card slot direction	Code	Color	RAL	Order Information
	A	Black	sim.9005	FAKRA05-A-9005-1-G
	B	White	sim.9001	FAKRA05-A-9001-1-G
	C	Blue	sim.5005	FAKRA05-A-5005-1-G
	D	Bordeaux Violet	sim.4004	FAKRA05-A-4004-1-G
	E	Green	sim.6002	FAKRA05-A-6002-1-G
	F	Brown	sim.8011	FAKRA05-A-8011-1-G
	G	Grey	sim.7031	FAKRA05-A-7031-1-G
	H	Violet	sim.4003	FAKRA05-A-4003-1-G
	I	Beige	sim.1001	FAKRA05-A-1001-1-G
	K	Curry	sim.1027	FAKRA05-A-1027-1-G
	L	Carmine Red	sim.3002	FAKRA05-A-3002-1-G
	M	Pastel orange	sim.2003	FAKRA05-A-2003-1-G
	N	Pastel Green	sim.6019	FAKRA05-A-6019-1-G
	Z	Water Blue	sim.5021	FAKRA05-A-5021-1-G

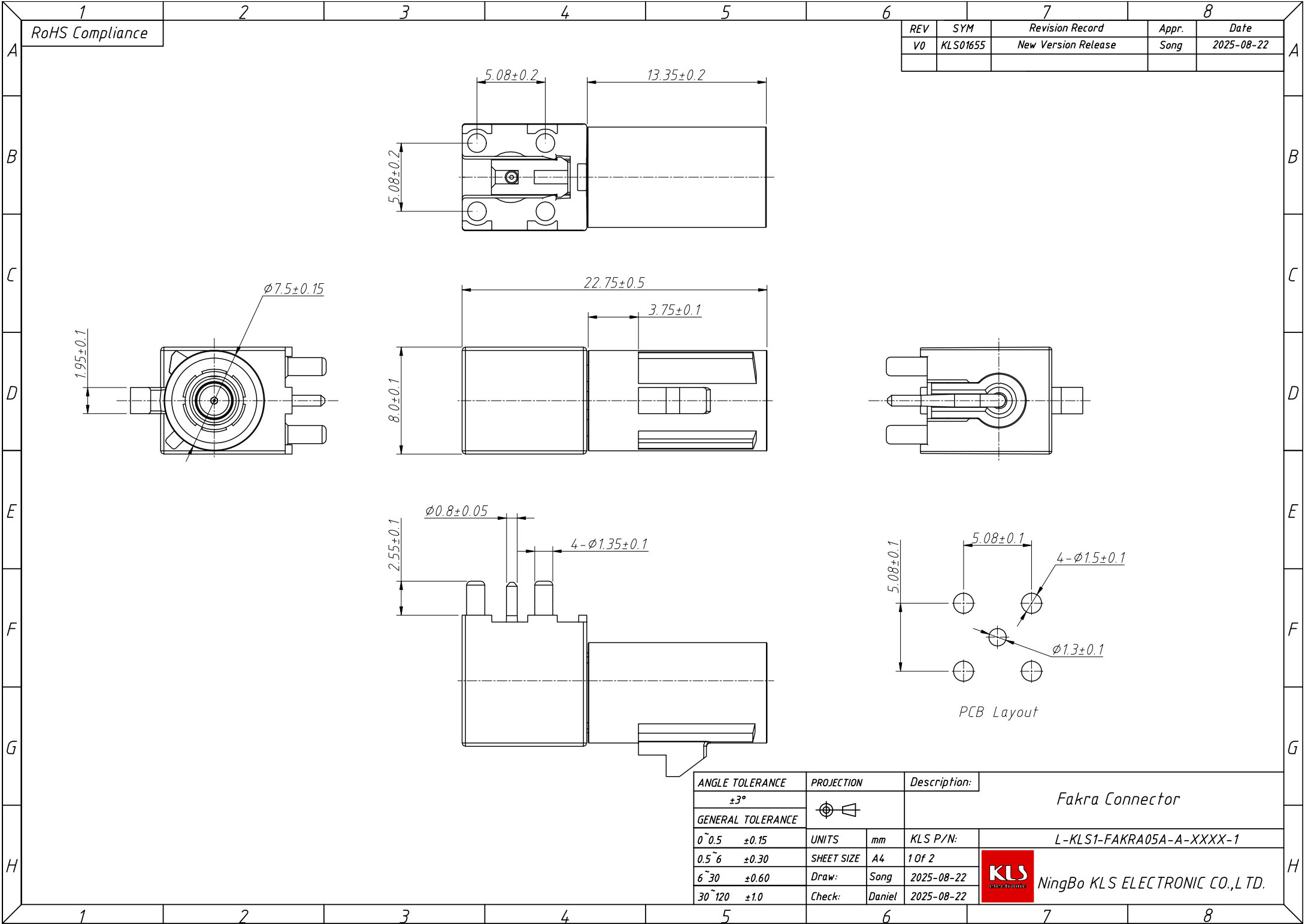
Material:
Core Pin:Brass,
Gold Plating On Contact Area
Tin Plating On Solder Tails
Core Pin Holder:PA6T,Black
Interface Housing:PA6T
Outer Housing:Zn Alloy,Tin Plating

Electrical:
Impedance:50 Ω
Frequency Range:DC to 6GHz
Test Voltage:750 V rms
Working Voltage:AC 335Vrms
Power Current:1 A DC
Insulation Resitance:1000M Ω Initial
Voltage Standing Wave Ratio(VSWR):SWR≤1.4,0~2GHz
SWR≤1.5,2~3GHz

Mating Cycles:25 Cycles Min
Engagement Force:40 N Max
Disengagement Force:2 N Min
Retention Force:110 N Min
Coding Efficiency:80 N Min
Temp. Range:-40°C to +105°C

Order Information
L-KLS1-FAKRA05-A-9005-1
RoHS
Card Slot Direction: _____
A=up B=down C=Left D=Right
RAL: _____
9005 Or 9001,5005,4004,6002,8011,7031,
4003,1001,1027,3002,2003,6019,5021
Size-1,2,3,4...

ANGLE TOLERANCE	PROJECTION	Description:
±3°		Right Angle Plug Fakra Connector
GENERAL TOLERANCE	UNITS	mm
x.x ±0.30	SHEET SIZE	A4
x.xx ±0.20	Draw:	Daniel
x.xxx ±0.03	Check:	Daniel
KLS P/N:		L-KLS1-FAKRA05-X-XXXX-1
2 Of 2		
NingBo KLS ELECTRONIC CO.,L TD.		



REV	SYM	Revision Record	Appr.	Date
V0	KLS01655	New Version Release	Song	2025-08-22

ANGLE TOLERANCE		PROJECTION		Description:	
$\pm 3^\circ$				Fakra Connector	
GENERAL TOLERANCE					
0 ~ 0.5	± 0.15	UNITS	mm	KLS P/N:	L-KLS1-FAKRA05A-A-XXXX-1
0.5 ~ 6	± 0.30	SHEET SIZE	A4	1 of 2	NingBo KLS ELECTRONIC CO.,LTD.
6 ~ 30	± 0.60	Draw:	Song	2025-08-22	
30 ~ 120	± 1.0	Check:	Daniel	2025-08-22	

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RoHS Compliance

REV

SYM

Revision Record

Appr.

Date

V0

KLS01655

New Version Release

Song

2025-08-22

Card slot direction

Code

Color

RAL

Order Information

A

Black

sim.9005

FAKRA05A-A-9005-1

B

White

sim.9001

FAKRA05A-A-9001-1

C

Blue

sim.5005

FAKRA05A-A-5005-1

D

Bordeaux Violet

sim.4004

FAKRA05A-A-4004-1

E

Green

sim.6002

FAKRA05A-A-6002-1

F

Brown

sim.8011

FAKRA05A-A-8011-1

G

Grey

sim.7031

FAKRA05A-A-7031-1

H

Violet

sim.4003

FAKRA05A-A-4003-1

I

Beige

sim.1001

FAKRA05A-A-1001-1

K

Curry

sim.1027

FAKRA05A-A-1027-1

L

Carmine Red

sim.3002

FAKRA05A-A-3002-1

M

Pastel orange

sim.2003

FAKRA05A-A-2003-1

N

Pastel Green

sim.6019

FAKRA05A-A-6019-1

Z

Water Blue

sim.5021

FAKRA05A-A-5021-1

Material:

Core Pin:Brass,Gold Plating

Insulator:PA9T,Black

Interface Housing:PA9T,Black

Outer Housing:Zinc Alloy,Tin Plating

Electrical:

Impedance:50±5Ω

Frequency:DC to 6 GHz

Dielectric withstand voltage: 500V(rms)

Insulation resistance: ≥1000MΩ

Center contact resistance: ≤ 5 mΩ

Outer contact resistance: ≤ 2.5 mΩ

VSWR ≤ 1.5

Mating cycles: ≥25 cycles

Tensile strength: ≥98 N

Order Information

L-KLS1-FAKRA05A-A-2003-1

RoHS

Card Slot Direction: _____

A=Up

RAL:5005 Or _____

9001,9005,4004,6002,8011,7031,

4003,1001,1027,3002,2003,6019,5021

Size-1,2,3,4...

ANGLE TOLERANCE

PROJECTION

Description:

±3°

Fakra Connector

GENERAL TOLERANCE

UNITS

mm

KLS P/N:

L-KLS1-FAKRA05A-A-XXXX-1

0~0.5

±0.15

SHEET SIZE

A4

2 Of 2

NingBo KLS ELECTRONIC CO.,L TD.

0.5~6

±0.30

Draw:

Song

2025-08-22

6~30

±0.60

Check:

Daniel

2025-08-22

30~120

±1.0

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