

RoHS Compliant



1. Material
See table.
2. Electrical
- A. Impedance: 50Ω
- B. Frequency range: DC to 6 GHz
- C. Return Loss:
 ≥ 26 dB, DC to 1 GHz
- D. Insertion Loss: -0.3 db max (DC to 2 GHz)
- E. Insulation resistance: $\geq 1 \times 10^3 m\Omega$
- F. Center contact resistance: $\leq 5 m\Omega$
- G. Outer contact resistance: $\leq 5 m\Omega$
- H. Test voltage (at sea level): 750V rms
- I. Working voltage (at sea level): 335V rms
- J. Power current: ≤ 1 ADC

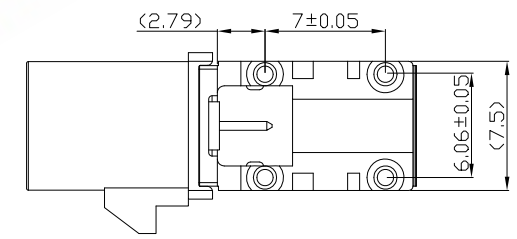
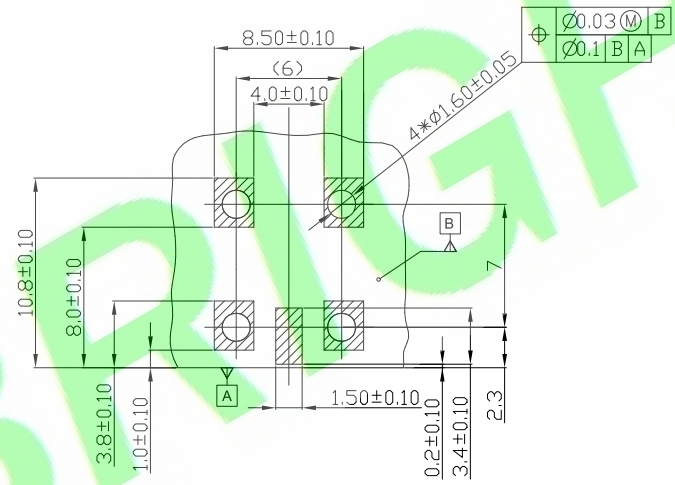
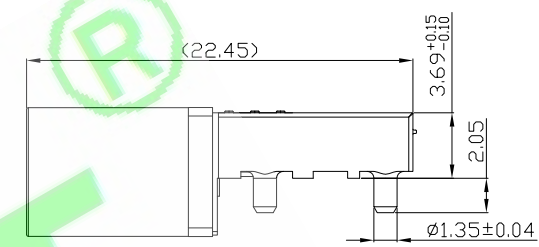
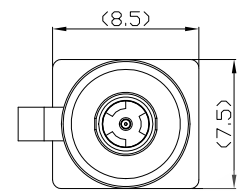
Mechanical data

- A. Mating cycles: ≥ 25
- B. Engagement force: ≤ 25 N
- C. Disengagement force: ≥ 2 N
- D. Retention force latch: ≥ 110 N
- E. Coding efficiency: ≥ 40 N

Ordering Information

FKR3690R-FX-03-G

- 1: — Series No.
- 2: — R:R/A Type
- 3: — F:Female
- 4: — Fool-proofing Type
- A: A Type
- B: B Type
- C: C Type
- D: D Type
- E: E Type
- F: F Type
- G: G Type
- H: H Type
- 5: — G: In Tape & reel
- I: I Type
- K: K Type
- L: L Type
- M: M Type
- N: N Type
- L: L Type
- Z: Z Type



NO	Part name	Number	Material	Plating/Color
1	Housing	1	HTN	See Table 1
2	Dielectric	1	HTN	See Table 1
3	Outer contact	1	Zinc alloy	Tin 2-5um over Nickel
4	Contact	1	Brass	Gold flash

DR.BY.: XIAO	GENERAL TOLERANCE:		PART NO : FKR3690R-FX-03-G
CHKD.: Aren	LINEAR	ANGLES	BURY P/N:
	X.: ± 0.40	X': $\pm 5.0^\circ$	TITLE : FAKRA LOW PROFILE Female CONNECTOR
	X.X: ± 0.30	X.X': $\pm 3.0^\circ$	
	X.XX: ± 0.20	X.XX': $\pm 2.0^\circ$	
APPD.: Billy	X.XXX: ± 0.10	X.XXX': $\pm 1.0^\circ$	DATE: 17-Oct-2025

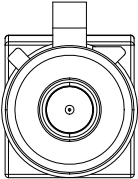
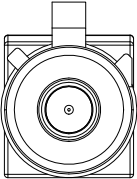
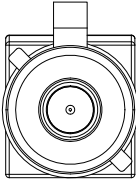
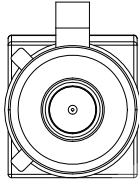
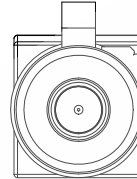
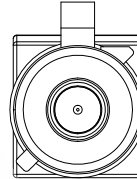
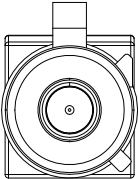
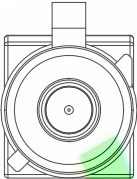
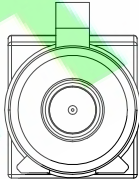
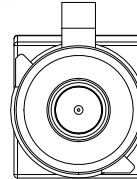
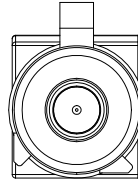
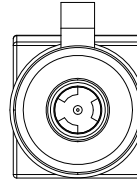
HJBRIGHT® 东莞市華晶電子有限公司
BRIGHT-E ELECTRONIC TECHNOLOGY LIMITED

SHEET: 1/2
SCALE: 1:1
UNIT: mm

THIRD ANGLE PROJECTION

A4

1X	ORIGINAL	XIAO	
REV	DESCRIPTION	DR.BY	ECN. NO

A Type	B Type	C Type	D Type	E Type	F Type	G Type
						
Black 9005	White 9001	Blue 5005	Claret Violet 4004	Green 6002	Brown 8011	Grey 7031
H Type	I Type	K Type	L Type	M Type	N Type	Z Type
						
Violet 4003	Beige 1001	Curry 1027	Carminé-red 3002	Pastel Orange 2003	Pastel Green 6019	Waterblue 5021

				DR.BY.: XIAO		GENERAL TOLERANCE: LINEAR		PART NO : FKR3690R-FX-03-G		HJBRIGHT® 東莞市華晶電子有限公司 BRIGHT-E ELECTRONIC TECHNOLOGY LIMITED					
				CHKD.: Aren		ANGLES		BURY P/N:							
				APPD.: Billy		x.: ±0.40 x": ±5.0°		TITLE : FAKRA LOW PROFILE Female CONNECTOR							
1X	ORIGINAL		XIAO			x.X: ±0.30 x.X": ±3.0°		DATE: 17-Oct-2025		SHEET: 2/2		 THIRD ANGLE PROJECTION		A4	
REV.	DESCRIPTION		DR.BY	ECN. NO.		x.XX: ±0.20 x.XX": ±2.0°				SCALE: 1:1					
						x.XXX: ±0.10 x.XXX": ±1.0°				UNIT: mm					
1		2		3		4		5		6		7		8	