

RoHS Compliant



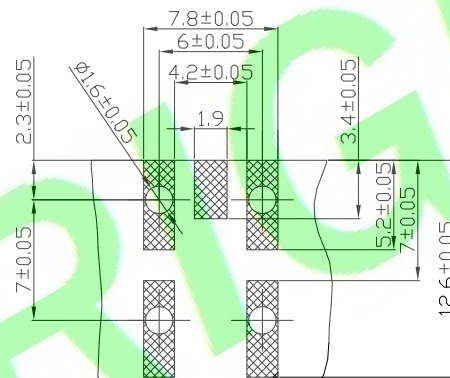
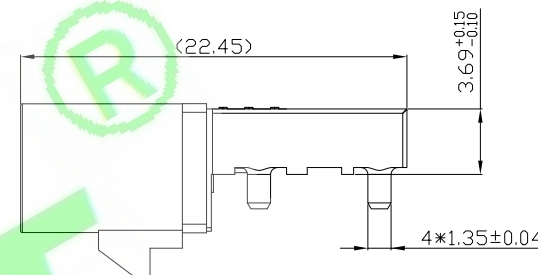
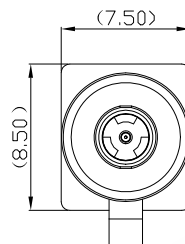
- 1.Material
See table.
2.Electrical
A.Impedance:50Ω
B.Frequency range:DC to 6 GHZ
C.Return Loss:
≥26 dB(DC to 1GHZ) ≥20 dB(DC 2.4 to 4GHZ)
≥23 dB(DC 1 to 2.4GHZ) ≥15 dB(DC 4 to 6GHZ)
D.Insertion Loss:≤0.15*dB
E.Insulation Resistance:≥1*10³dB
F.Center contact resistance:≤5mΩ
G.Outer contact resistance:≤5mΩ
H.Test voltage (at sea level):750V rms
I.Working voltage (at sea level):335V rms
J.Power current:≤1ADC

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

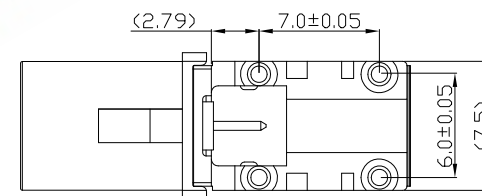
Ordering Information

FKR3690R-FX-02-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
I:I Type
K:K Type
L:L Type
M:M Type
N:N Type
L:L Type
Z:Z Type
5: — G:In Tape & reel



Recommended PCB LAYOUT



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 1-5um
4	Contact	1	Brass	Gold flash

DR.BY.: XIAO	GENERAL TOLERANCE:		PART NO : FKR3690R-FX-02-G	
CHKD.: Aren	LINEAR	ANGLES	BURY P/N:	
	X.: ±0.40	X': ±5.0°	TITLE : FAKRA LOW PROFILE Female CONNECTOR	
	X.X: ±0.30	X.X': ±3.0°		
APPD.: Billy	X.XX: ±0.20	X.XX': ±2.0°	DATE: 17-Oct-2025	
	X.XXX: ±0.10	X.XXX': ±1.0°		

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

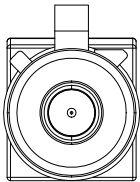
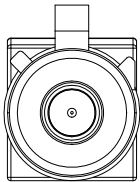
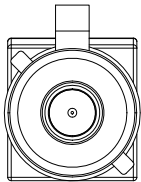
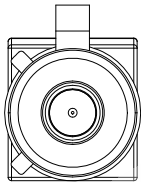
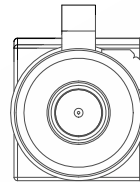
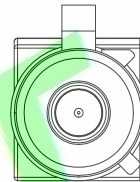
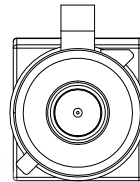
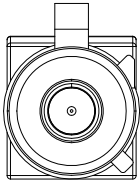
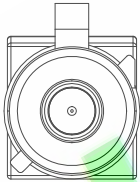
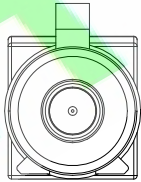
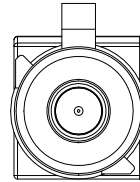
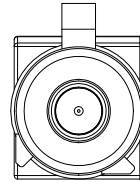
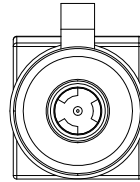
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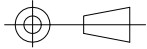
1X	ORIGINAL	XIAO	
REV	DESCRIPTION	DR.BY	ECN. NO

See Table 1:
Fool-proofing Type

RoHS Compliant



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	Carmine-red 3002	Pastel Orange 2003	Pastel Green 6019	Waterblue 5021

1X		ORIGINAL		XIAO		ECN. NO.		DR.BY.: XIAO		GENERAL TOLERANCE:		PART NO : FKR3690R-FX-02-G		HJBRIGHT® 东莞市華晶電子有限公司 BRIGHT-E ELECTRONIC TECHNOLOGY LIMITED				A4	
REV		DESCRIPTION		DR.BY		NO		CHKD.: Aren		X.: ±0.40		X': ±5.0°		BURY P/N:		SHEET: 2/2		SCALE: 1:1	
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