

- 1.Material
See table.
2.Electrical
A.Impedance:50 Ω
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 Loss: $\geq 1 \cdot 10^3$ M Ω
F.Center contact resistance: ≤ 5 m Ω
G.Outer contact resistance: ≤ 5 m Ω
H.Test voltage (at sea level):750V rms
I.Working voltage (at sea level):335V rms
J.Power current: ≤ 1 ADC

Mechanical data

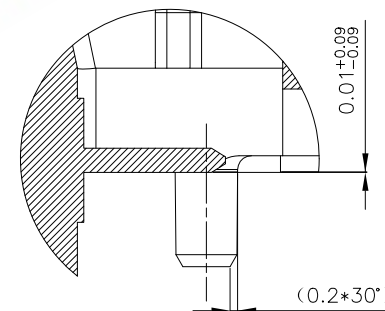
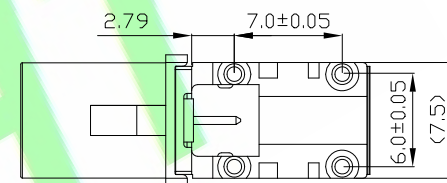
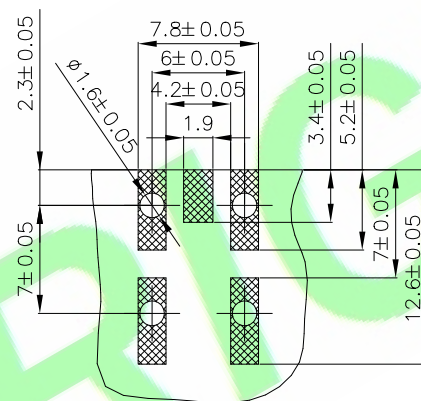
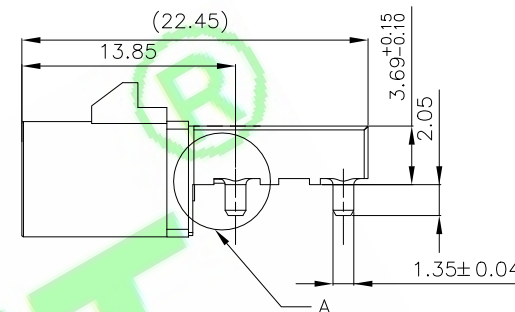
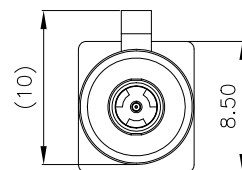
- A.Mating cycles: ≥ 25
B.Engagement force: ≤ 25 N
C.Disengagement force: ≥ 2 N
D.Retention force latch: ≥ 110 N
E.Coding efficiency: ≥ 40 N

Ordering Information

FKR3690R-FX-01-G

1 2 3 4 5

- 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
O:O Type
P:P Type
Q:Q Type
R:R Type
S:S Type
T:T Type
U:U Type
V:V Type
W:W Type
X:X Type
Y:Y Type
Z:Z Type
5: — G:In Tape & reel



Recommended PCB LAYOUT

Partial view:A Ratio 6:1

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:

LINEAR

ANGLES

CHKD.:

Aren

X.: ± 0.40 X': $\pm 5.0^\circ$ X.X: ± 0.30 X.X': $\pm 3.0^\circ$

APPD.:

Billy

X.XX: ± 0.20 X.XX': $\pm 2.0^\circ$ X.XXX: ± 0.10 X.XXX': $\pm 1.0^\circ$

PART NO : FKR3690R-FX-01-G

BURY P/N:

TITLE :

FAKRA LOW PROFILE Female CONNECTOR

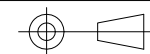
DATE: 17-Oct-2025

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

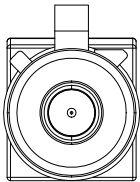
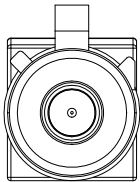
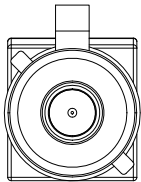
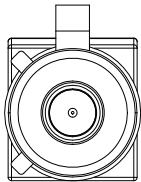
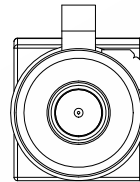
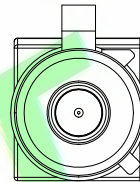
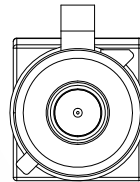
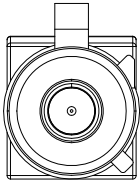
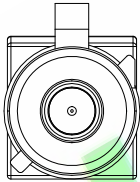
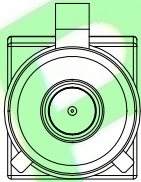
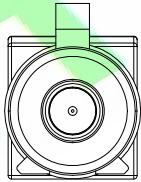
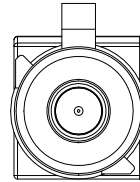
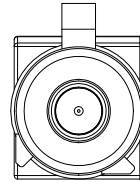
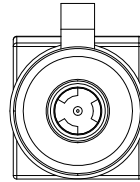
A4

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

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

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