

RoHS Compliant



- 1.Material
See table.
- 2.Electrical
- A.Impedance:50Ω
- B.Frequency range:DC to 6 GHZ
- C.Return Loss:
≥27 dB ,DC to 1 GHZ
≥20 dB ,1 to 3 GHZ
≥17 dB ,3 to 6 GHZ
- D.Insertion Loss:-0.3 db max (DC to 2 GHZ)
- E.Insulation resistance:≥1*10³ MΩ
- F.Center contact resistance:≤5 mΩ
- G.Outer contact resistance:≤5 mΩ
- H.Test voltage (at sea level):750V rms
- I.Working voltage (at sea level):335V rms
- J.Power current:≤1ADC

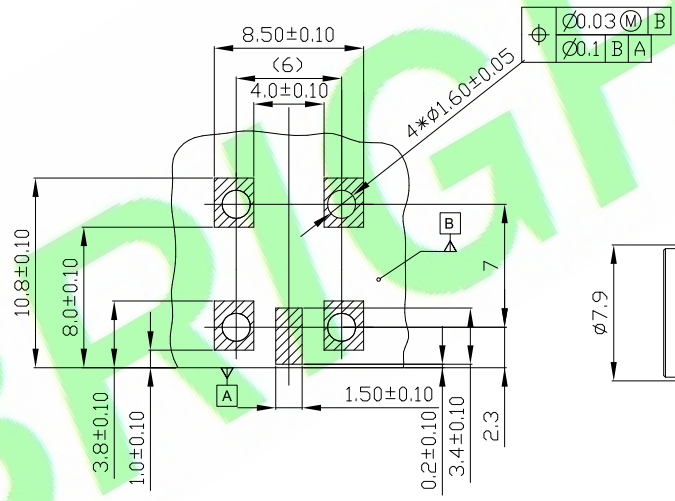
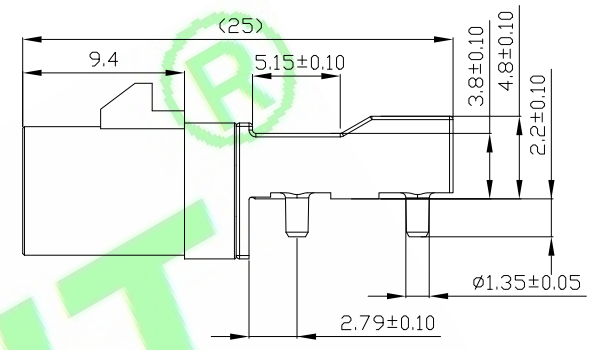
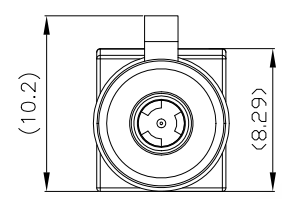
Mechanical data

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

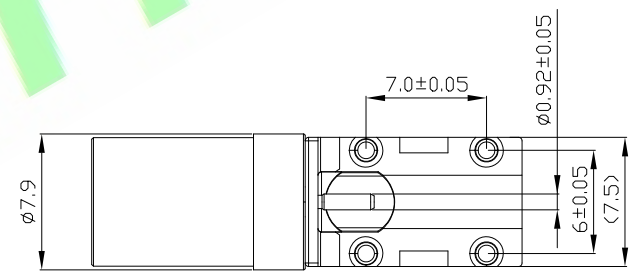
Ordering Information

FRK480R-FX-01-G

- 1: — Series No.
- 2: — R/R/A Type
- 3: — F:Female
- 4: — Fool-proofing Type
- A:A Type H:H Type
- B:B Type I:I Type
- C:C Type K:K Type
- D:D Type L:L Type
- E:E Type M:M Type
- F:F Type N:N Type
- G:G 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
4	Contact	1	Brass	Gold flash

DR.BY.: XIAO	GENERAL TOLERANCE:		PART NO : FRK480R-FX-01-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

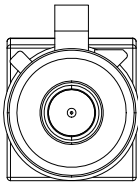
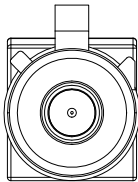
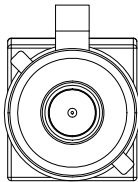
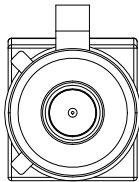
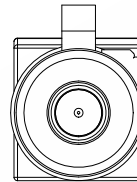
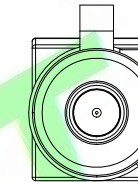
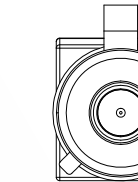
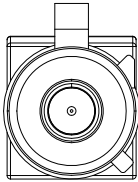
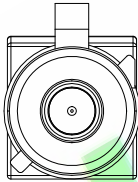
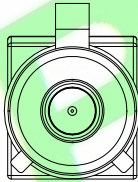
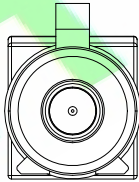
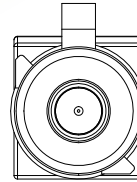
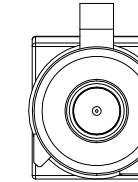
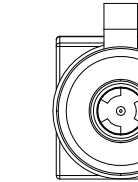
SHEET: 1/2		A4
SCALE: 1:1		
UNIT: mm		

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.		APPD.: Billy		GENERAL TOLERANCE:		PART NO : FRK480R-FX-01-G		BURY P/N:		TITLE :		DATE: 17-Oct-2025		SHEET: 2/2		SCALE: 1:1		UNIT: mm		THIRD ANGLE PROJECTION		A4	
REV		DESCRIPTION		DR.BY		NO.		CHKD.: Aren		X.X: ±0.30		X.XX: ±0.20		X.XXX: ±0.10		X': ±5.0°		X.X': ±3.0°		X.XX': ±2.0°		X.XXX': ±1.0°		FAKRA LOW PROFILE Female CONNECTOR		HJBRIGHT® 东莞市華晶電子有限公司		BRIGHT-E ELECTRONIC TECHNOLOGY LIMITED	