

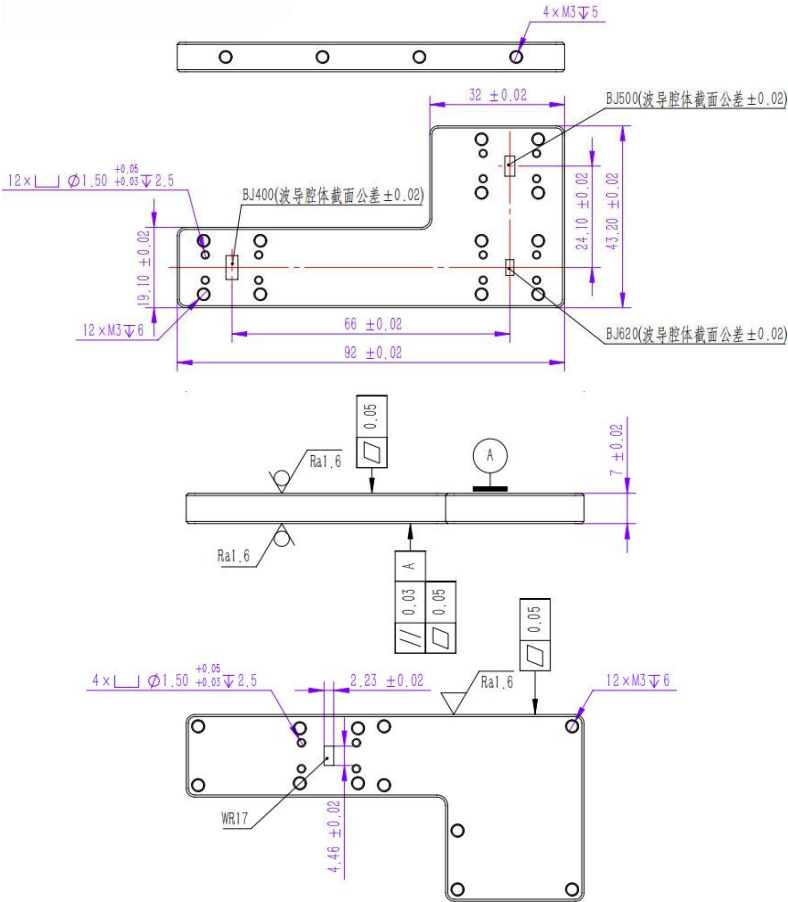
Electrical specifications

Parameter	Requirements			Units
	Channel 1	Channel 2	Channel 3	
Center frequency	41.5-42.5	59.3-60.6	50.4-51.4	GHz
Bandwidth	1.0	1.3	1.0	GHz
Amplitude Ripple	≤0.2	≤0.2	≤0.2	dB
Insertion Loss (Over Full Temperature Range)	≤0.6	≤0.8	≤0.6	dB
Group Delay Ripple	≤0.5	≤0.5	≤0.5	ns
Voltage Standing Wave Ratio	≤1.3	≤1.3	≤1.3	Ratio
Attenuation	≥40dB@37.95-39.5GHz ≥80dB@50-52GHz ≥80dB@60-64GHz	≥65dB@62.7-64GHz ≥80dB@50-52GHz	≥80dB@41.5-42.5GHz ≥80dB@60-64GHz	dB
Connector Type	BJ400	BJ620	BJ500	/

Absolute maximum ratings

Parameter	Ratings
Operating temperature	-40°C to +85°C
Storage temperature	-50°C to +85°C
Materials & Appearance	Silver-plated Aluminum
Power capacity	40W
Output Port	WR17
RoHs	Yes
ESD Sensitive Device	Yes
Moisture Resistance Rating	MSL 1

Outline drawing



Product Marking:

Brand name	SHOUFEI
Part number	SCD7564
Batch number	MMYDDXX

Batch Numbering Logic

Month MM	Year Y	Day DD	Suffix Digit XX
01	A: 2023	01	01
02	B: 2024	02	02
03	C: 2025	03	03
04	D: 2026	04	04
...	...	...	...
12	Z: 2049	31	99

Technical Requirements:

- 1.All edges deburred and sharp edges broken. Hole chamfer C0.25, outer edge chamfer C0.5.
- 2.Undimensioned dimensional tolerances shall comply with GB/T 1804-1. Undimensioned geometric tolerances shall comply with GB/T 1184-H.
- 3.Position tolerance for all holes and threaded holes: ± 0.05 mm.
- 4.If one set of assembly structure is processed, complete assembly to ensure correct fitting.
- 5.Tapping holes shall be machined in accordance with standards. Threads shall withstand 20 cycles of repeated tightening and loosening without thread stripping. All threaded holes on metal parts shall meet conductivity requirements; this requirement does not apply to non-metallic parts. Standard C-chamfers shall be applied on end faces of threaded holes and through holes. Blind holes shown as non-through in the 3D model shall NOT be drilled through during machining; backside bulging is prohibited.
- 6.The 2D drawing shall serve as the basis for machining and acceptance. Undimensioned dimensions shall follow the 3D model.

Notes

1. Operating frequency shall be marked on all filter communication ports.
2. Threads of cover fastening screws shall be installed with adhesive.
3. All tuning screws to be locked with adhesive; glue coverage over 1/2 turn (DG-4 adhesive).
4. Product model and serial number shall be laser marked.