

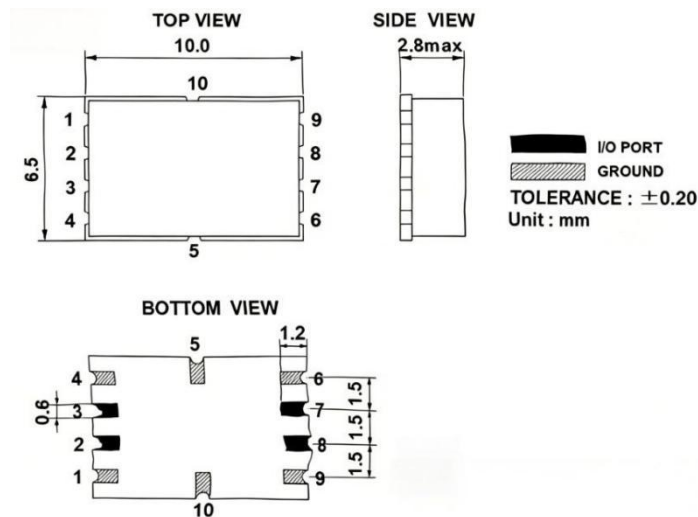
Electrical specifications

Parameter	Symbol	Test Condition	Min.	Max.	Units
Input/Output Impedance 50 Ω					
Center frequency	f_0	46.52MHz	-	-	MHz
3dB Bandwidth	BW	-	20.46	-	MHz
Insertion Loss	IL	46.52MHz	-	2.5	dB
Insertion Loss	IL	36.5-56.5MHz	-	4.5	dB
Voltage Standing Wave Ratio	$VSWR$	36.5-56.5MHz	-	2.3:1.0	-
Group Delay Ripple	GD	36.5-56.5MHz	-	50.0	ns
Differential Impedance	Z_{diff}	Differential Input	200		Ω
		Differential Output	100		Ω
Phase Consistency	-	46.52MHz	-	16.0	dB
Amplitude Consistency	-	46.52MHz	-	0.5	dB
		36.5-56.5MHz	-	1.0	dB
Attenuation	A_s	DC-30.0MHz	40.0	-	dB
		31.0MHz	35.0	-	dB
		62-67.5MHz	30.0	-	dB
		67.5-100MHz	38.0	-	dB

Absolute maximum ratings

Parameter	Ratings
Operating temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C

Outline drawing



Product Marking:

Brand name	SHOUFEI
Part number	SLC7544A
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

Pin Definition

Pin	Pin Definition	Direction	Function
1, 4, 5, 6, 9, 10	GND	/	Signal Ground
2	RF1+	I/O	Differential Signal Input/Output (AC Coupled)
3	RF1-	I/O	Differential Signal Input/Output (AC Coupled)
7	RF2+	I/O	Differential Signal Input/Output (AC Coupled)
8	RF2-	I/O	Differential Signal Input/Output (AC Coupled)

① Pins 2-8, 3-7 have fixed pairing; swapping causes 180° phase shift.

② DC blocking capacitors are integrated inside the component; no external DC blocking capacitors are required in circuit design.

Frequency Characteristics

