

ZY-TRX2 Microwave Integrated Transceiver Module

Product Features

- Apply to communication system
- Working frequency band: X band
- Working bandwidth: 450MHz
- Fast frequency hopping function and strong anti-interference performance
- Working temperature: $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$



Performance Parameters (+24V)

Parameters		Symbol	Value	Unit	Remark
Receiving channel	Input dynamic range	P_{in}	-105~-25	dBm	
	Channel gain	G_p	30~40	dB	
	Noise figure	NF	≤ 5	dB	
	In-band flatness	ΔP	$\leq \pm 0.75$	dB	
	Harmonic and clutter suppression	R_{fi}	≥ 50	dB	
	Port standing wave	VSWR	≤ 1.5	-	
Transmitting channel	Filtering features	R_{fi}	≥ 50	dB	Pass band beyond 3GHz
	Output level	P_0	40	dBm	CW, customizable
	Harmonic and clutter suppression	R_{fi}	≥ 50	dB	
	EVM deteriorate	-	3%		MSK modulation, rate of 6M
Local oscillator	Frequency accuracy	ΔF_i	± 2	ppm	
	Frequency hopping time	τ	≤ 200	ns	
	Phase noise	\mathcal{L}_{fm}	$\leq -80@10\text{kHz}$ $\leq -90@100\text{kHz}$	dBc/Hz	
Power consumption			$\leq 70\text{W}$		
Dimensions		150mm×150mm×30mm			

Instruction: This product has formed a series of standard products, and output power of transmitting can be customized.