

ZY5SF02 RF Transceiver for S-band Satellite Responder

Product Features

- Apply to some commercial satellite response system
- Include 2 receiving and 2 transmitting channels, switch of cold and hot backup
- With up- and -down convert telemetry instruction function
- Single power supply: +5V, power consumption< 4.7W



Performance Parameters (+5V)

Parameters		Symbol	Parameter value	Unit
Transmitting channel	Input Intermediate frequency	F_{in}	$(180+15fd) \pm 3$	MHz
	Input level	P_{in}	-25 ± 2	dBm
	Output frequency	F_{out}	$480fd$	MHz
	Output level	P_0	≥ 18	dBm
	Phase noise	$\mathcal{L}_{fm}$	$\leq -75@1kHz$ $\leq -85@10kHz$	dBc/Hz
	Clutter suppression	R_{fi}	$\leq -40@480fd \pm 6M$ $\leq -60@480fd \pm 34M$	dBc
Receiving channel	RF input frequency	F_{in}	$442fd$	MHz
	RF input level	P_{in}	$-90 \sim -50$	dBm
	Received noise figure	NF	≤ 8.5	dB
	MF output frequency	F_0	$(180-23fd) \pm 3$	MHz
	MF output level	P_0	$-32 \sim -12@P_{in}=-90 \sim -70dBm$ $-14 \sim -8@P_{in}=-70 \sim -50dBm$	dBm
	Image rejection	R_{im}	≤ -60	dBc
	Clutter suppression	R_{fi}	$\leq -40@ (180M-23fd) \pm 8M$ $\leq -60@ (180M-23fd) \pm 18M$	dBc
External dimensions		143mm×120mm×28mm (without fixed leg)		

Instructions: 1. Other frequency products can be customized according to customers' requirements.
2. Appearance and temperature can be customized, too.