

## ZY23-06-05 Ka Transceiver assembly

### Product Features

- Apply to communication system
- Working frequency band: Ka band
- Working bandwidth: 300MHz
- Working mode: Frequency division duplex( FDD)
- Output 1W (P-1)
- Adopt analog AGC function, control range: 60dB
- Working temperature:  $-40^{\circ}\text{C}\sim+70^{\circ}\text{C}$



### Performance Parameters:

(Test Condition: normal temperature; working voltage: +12V; control mode: RS485 serial port)

Parameters		Symbol	Value	Unit	Remark
Receiving channel	Intermediate frequency	$F_{if}$	1200/1350	MHz	Transceiver reciprocity
	Input dynamic range	$P_{in}$	$-90\sim-30$	dBm	
	Noise figure	NF	$\leq 5$	dB	
	Image rejection	$R_{im}$	$\geq 60$	dB	
	Output level	$P_0$	$0\pm 1$	dBm	With AGC function
Transmitting channel	Input level	$P_i$	$0\pm 1$	dBm	
	Output frequency	$F_0$	3X.XX、3X.XX	GHz	Transceiver reciprocity
	Third order intermodulation	IMD3	$\geq 38$	dB	100mW output
	In-band flatness	$\Delta P$	$\leq \pm 0.5$	dB	
Local oscillator	External reference frequency	$F_R$	100	MHz	
	Phase noise	$\mathcal{L}_{im}$	-95@1kHz -100@10kHz -105@100kHz	dBc/Hz	
Power consumption		$\leq 25\text{W}$			
External dimensions		100mm×100mm×50mm			