

High power Rx/Tx Assemblies



Model: VRS-TR1510-2-20W

_	Test Conditions	Limit value			
Parameter		Min	Min	Unit	
Тх					
Frequency Range		15		GHz	
Transmit power		44	45	dBm	
Local oscillator spuriou		_	-70	dBc	
Pulse Width		1.6		uS	
Transmit pulse leading edge		_	100	nS	
Transmit pulse trailing edge		_	100	nS	
Transmit pulse drop		_	0.7	dB	
Pulse leading jitter		-2	2	nS	
		_	-85dBc@100H	dBc	
Output local oscillation phase noise	Frequency: 15GHz Voltage: +12V	_	-105dBc@1kH z	dBc	
Rx	Temperature: 25℃				
IF output signal power		15		dBm	
Receive gain		66	70	dB	
IF out-of-band suppression		60dBc@120±40 MHz	_	dBc	
Received noise figure		_	4	dB	
In-band flatness		-0.25	0.25	dB	
Receive dynamic range		66	_	dB	
Output IF the floor noise		_	50	mV	
Comb line amplitude fluctuation		_	0.5	dB	
Power Supply					
Current		_	2.5	A	
Function					
	Medium mode: pulse width 1.6μS, cycle 250μS (4kHz) Medium mode: pulse width 20μS, cycle 250μS (4kHz)				
Operating mode parameters P	Proximity mode: pulse width 1.6μS, period 125μS (8kHz)				
	Proximity mode: pulse width 20μS, period 125μS (8kHz)				
Г	The default value for PRF is 4 kHz, 0 is the default value, and 1 is 8 kHz.				



Modulation bandwidth	40MHz (Positive slope linear frequency modulation)		
Signal source short-term stability	1×10 ⁻⁸		
160M Reference output	3 output: SMA differential interface all the way, two single-ended output; Amplitude: $4\pm 1dBm$; Isolation: $\geqslant 40dBc$		
Transmit pulse sync signal	TTL differential 422 level, the counting cycle error is less than 6.25nS		
Length/short frame setting (signal processing provided)	1-bit TTL difference 422 level		
Frequency setting (signal processing provided)	2-bit TTL difference 422 level		
Repeat frequency setting	1 bit TTL difference 422 level, PRF default value is 4kHz;		
(signal processing provided)	The control signal "0" is the default value of 4kHz and "1" is 8kHz		
Output amplifier control switch	TTL level, advance pulse sync rising edge 2µS turn on the amplifier, puls sync falling edge off power amplifier		
Mode control (signal processing provided)	1-bit TTL difference 422 level		
Transmitter switch control (signal processing provided)	1-bit TTL difference 422 level		
Self-test request (signal processing provided)	1-bit TTL difference 422 level		
Outputs a bit mode respond pulse	1-bit TTL difference 422 level		
STC condition range	RF: $0 \sim 30 dB$ continuous controllable, attenuation curve can be set; From the start of the pulse, the subsequent edge is decayed by the R4 curve as the starting time		
ЕМС	There is no interference to the signal processor, not because of the signal processor to interfere with their own normal work without affecting the technical indicators		
Dimensions	265mm×150mm×26mm		
Operating temperature	-40°C ~+60°C		
Storage temperature	-50°C ~+65°C		