

YX-TFS21-22

Features:

1. Frequency Range: 50MHz to 22.6GHz

2. Size: 50*50* 13mm

3. Phase noise:-107dBc/Hz@1kHz (10GHz)

4. Control method: SPI control



Electrical performance parameters

External references	
Input frequency	100MHz
Input power	7±3dBm
Frequency stability	Synchronized with external reference
Frequency accuracy	Synchronized with external reference
Phase noise	≤ -155dBc/Hz@1kHz
Input impedance	50Ω

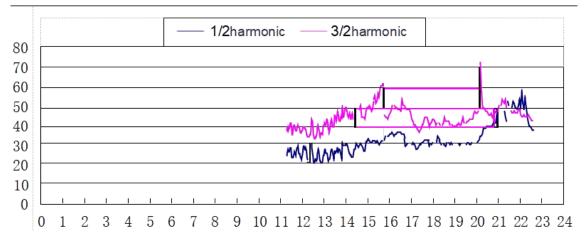
Frequency output	
Frequency output	50~22600MHz
Frequency stepping	0. 1Hz
Hopping Time①	≤200 microseconds, ≤50 microseconds (Option 1)
Spurious	-70dBc (TYP)/ -65dBc(MAX)
Harmonics	≤-20dBc (1/2 and 3/2 harmonics from 11.3GHz to 22.6GHz), ≤ -5dBc
Output power	5±5dBm

Note: Consult the manufacturer before placing an order with a 50 us hopping time requirement.

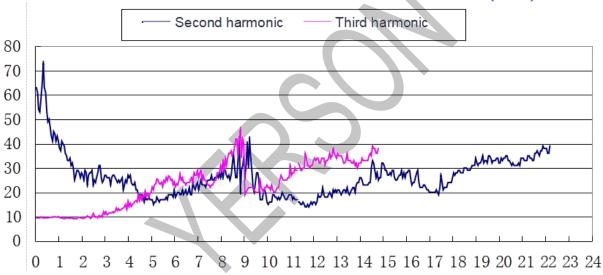


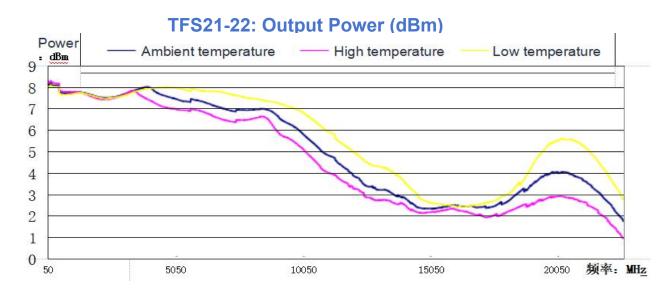
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TFS21-22: 1/2 & 3/2 Harmonic (dBc)



TFS21-22: 2nd and 3rd Harmonic Distortion (dBc)





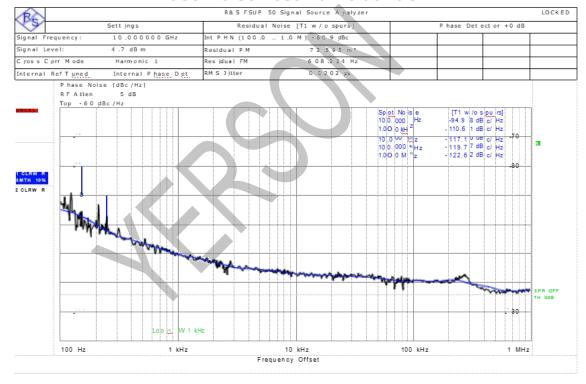


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Phase noise (dBc/Hz)

TFS21-22 Phase Noise					
Frequency offset	1GHz	5GHz	10GHz	22.6GHz	
100Hz	-105	-91	-85	-79	
1kHz	-127	-113	-107	-101	
10kHz	-135	-122	-116	-110	
100kHz	-135	-122	-116	-110	
1MHz	-135	-122	-116	-110	

A Phase Noise Test Curve at 10GHz



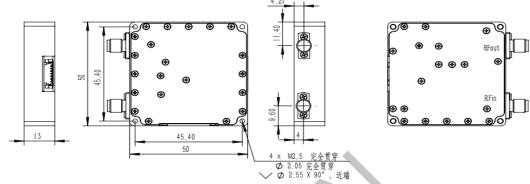
Power Requirements	
Working Voltage	+12±0.5V
Maximum voltage	+15V
Working current	0.5A(TYP)
Temperature and Environmental Characteristics	
Working temperature	-40° to +70°C
Storage temperature	-55°to +85°C



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Outward appearance and volume		
Volume	50×50×13	
Weight	≤80g	

Installation dimensions and connector definition



Connection Definition						
RF in		SMA-K (removable)				
RF ou	ıt	SMA-K (removable)				
Powe	r and Control	53261-0671-7P (1.25 pitch; single row 7-pin horizontal header)				
J30J Interface Definition						
1	+12V (Powe	er Supply)	4	LE (SPI Communication Interface)	7	LD (Lock Indicator: High Level Locked)
2	GND (Gr	round)	5	MISO (SPI Communication Interface)		
3	MOSI (SPI cor interfa		6	SCK (SPI Communication Interface)		