



Miniature Frequency Synthesizer 1 to 8GHz

P/N	Freq. (GHz)	Step Size (MHz)	Power Output ² (dBm) Min	Flatness (dB) Typ.	Phase Noise (10 MHz Step Size) (dBc/Hz)					Harmonic ⁴ (dBc) Max	Spurious (dBc) Max	Switching Speed ⁵ (us)	Power Supply (V/mA) Typ.	Case
					Freq. (GHz)	@1 KHz	@10 KHz	@100 KHz	@1 MHz					
UFS1020	1-2	0.1-10	+13	≤±1.5	1	-104	-106	-106	-125	-10	-65	≤40	+18/150	UFS-1
					2	-98	-100	-100	-120					
UFS2040	2-4	0.1-10	+13	≤±1.5	2	-98	-100	-100	-120	-10	-65	≤40	+18/200	UFS-1
					4	-92	-94	-94	-105					
UFS4080	4-8	0.1-10	+13	≤±1.5	4	-92	-94	-94	-105	-10	-65	≤40	+18/250	UFS-1
					8	-86	-88	-88	-100					

- Notes:**
1. Narrowband Miniature frequency synthesizer also available.
 2. Power Output: ≥ +13dBm can be extended to dual outputs.
 3. Frequency Stability: ±3x10⁻⁶ with built-in TCXO or with external reference.
 4. Harmonics: ≤ -30~-50dBc with frequency range <80% octave.
 5. Switching Speed: ≤ 40us (10MHz Step Size)
 6. For Commercial Application: Operating Temperature: -10~+50°C.
For Industrial Application: Operating Temperature: -20~+60°C.
For other Application: Operating Temperature: -40~+70°C, -55~+85°C.