



High Performance DDS Frequency Syn. 1 to 18GHz

The content of this specification may change without notification 4/20/2011



RoHS
COMPLIANT
2002/95/EC



High Performance DDS Frequency Synthesizer 1 to 18GHz

P/N	Freq. (GHz)	Step Size (MHz)	Power Output (dBm) Min	Flatness (dB) Typ.	Phase Noise (dBc/Hz)					Harmonic ³ (dBc) Max	Spurious (dBc) Max	Switching Speed (us)	Power Supply ⁴ (V/mA) Max	Case
					Freq. (GHz)	@1 KHz	@10 KHz	@100 KHz	@1 MHz					
DFS1020	1-2	1	+13	≤+1.5	1	-106	-108	-108	-125	-10	-60	≤120	+12/1200	DFS-1
					2	-100	-102	-102	-120				+5/1700	
DFS2040	2-4	1	+13	≤+1.5	2	-100	-102	-102	-102	-10	-60	≤120	+12/1200	
					4	-92	-94	-94	-118				+5/1700	
DFS4080	4-8	1	+13	≤+1.5	4	-92	-94	-94	-118	-10	-60	≤120	+12/1400	DFS-1
					8	-88	-90	-90	-105				+5/1900	
DFS80180	8-18	1	+10	≤+1.5	8	-88	-90	-90	-105	-10	-60	≤120	+12/1500	
					12	-82	-85	-85	-103				+5/2000	
					18	-80	-82	-82	-100				+24/50	
DFS20180	2-18	1	+10	≤+1.5	2	-100	-102	-102	-120	-10	-60	≤120	+12/1600	DFS-1
					4	-92	-94	-94	-118					
					8	-88	-90	-90	-105				+5/2100	
					12	-82	-85	-85	-103					
					18	-80	-82	-82	-100				+24/50	

Notes:

1. Narrowband high performance DDS frequency synthesizer also available.
2. Frequency Stability: $\pm 1 \times 10^{-7}$ with built-in OCXO or with external reference.
3. Harmonics: ≤ -55 dBc with additional switch filter option. (For outline drawing, Pls. refer to DFS-2).
4. Power supply: with switch filter option, additional -5V/200mA power supply will be needed.
5. 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.