

### Features

- ▲ Wide Frequency ranges
- ▲ Selectable step sizes
- ▲ SPI programming
- ▲ Variety of Reference options
- ▲ Optional tuning interfaces

*Model DS3000 is a DDS-based synthesizer covering tuning bands specified within 8 to 14 GHz. Phase noise and spurious performance is consistent with most test equipment, receiver or carrier transmitter requirements. Tuning is accomplished via 4-wire SPI tuning. Customer reference of 10 MHz can be utilized, or the DS4000 can be provided with an internal reference.*

#### Electrical

Frequency range (any 2 GHz)	8 to 14 GHz
Step Size	10 kHz
Output impedance	50 Ohms
Power output	+13 dBm, min
Output Connector	SMA-Fem
Spurious	<-50 dBc
Harmonics	<-25 dBc
Phase Noise: typ, @ offsets	
100 Hz	<-75 dBc/Hz
1 kHz	<-85 dBc/Hz
10 kHz	<-90 dBc/Hz
100 kHz	<-100 dBc/Hz
1 MHz	<-115 dBc/Hz

#### Reference

External Reference Frequency (input)	10 MHz
Reference Monitor (output)	10 MHz

#### General

Operating temperature	-30 to +71 °C
Storage temperature	-54 to +85 °C
Humidity	up to 95%
Power Requirements:	+12 VDC
Programming	4-Wire SPI serial
Lock alarm	open collector, Z high
RF connectors (RF out and REF in/out)	SMA-FEM
DC and control	D-Sub, 9 pin