

## Key Features

- Multiple Spectrum Analyzer Support
- >80dB Dynamic Range
- Standalone TG Source, no PC needed
- Can be used as programmable Microwave Signal Generator with PC

# TG6000

## TRACKING SIGNAL GENERATOR



### TG6000, A Generic Tracking Signal Generator

The TG6000 enables users to generate a tracking signal >6GHz using their Spectrum Analyzer (SA). Preprogrammed settings support a large number of existing SA's. In addition it is possible for the user to configure the instrument for other analyzers using the provided PC software and USB interface. The TG6000 covers the fundamental band (Band0) and Band1 of the users SA.

### Ease of Use

The user connects the Spectrum Analyzers 1<sup>st</sup> LO and its 10MHz to the TG6000. Selection of SA Model is done by rear panel rotary switches. A TG signal is now active at the either the TG OUT(L) or TG OUT(H) port of the instrument. With the users DUT inserted between the TG output and the SA input the DUT frequency response is automatically traced on the users SA display. **No PC is needed to operate the TG6000 as a tracking signal source.**

### Signal Generator Operation

The TG6000 can operate as a broad band RF signal generator with the output frequency controlled via rear panel USB port. The SG output is fully synthesized and locked to the applied 10Mhz reference. A provided Software application allows the user to set the frequency and power level of the SG OUT port. Frequency output covers from 32MHz to 4.4 GHz with optional coverage from 24MHz to 6GHz.

The USB port is configured as a COM port which supports industry standard SCPI commands for frequency and level. A table of 255 frequencies can programmed that can be selected by rear panel rotary switches.



[www.dsinstruments.com](http://www.dsinstruments.com)

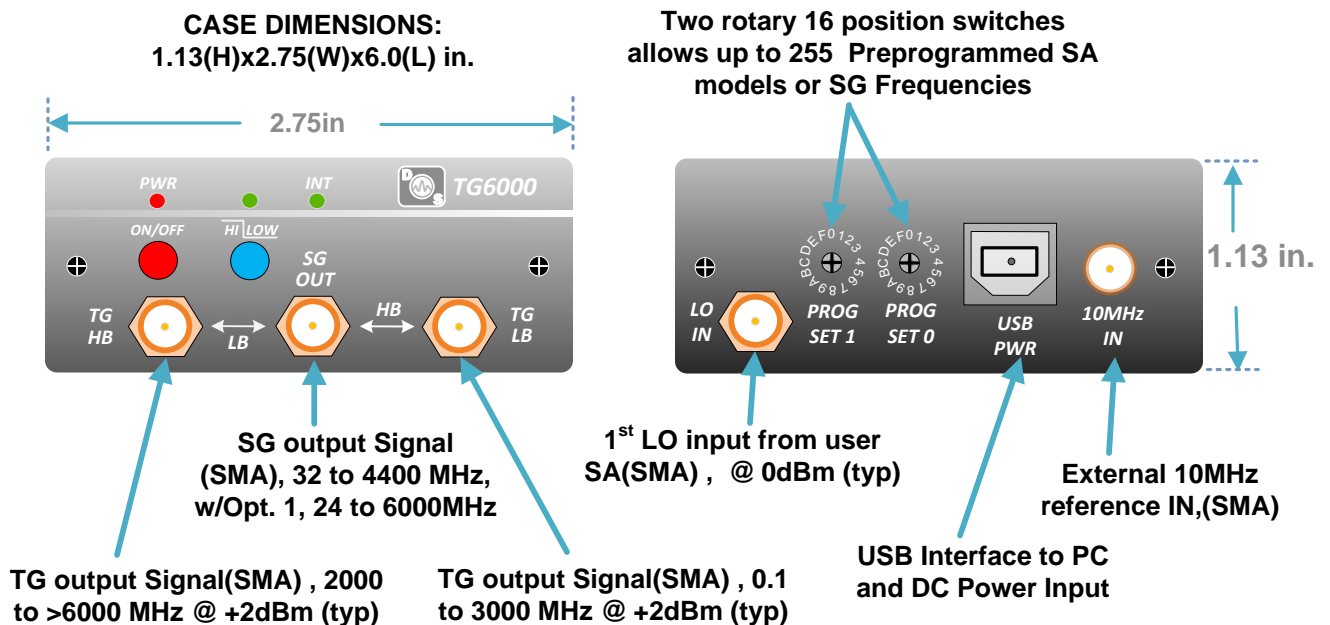
TG6000 Rev. 1.0

# TG6000

## SPECIFICATIONS

Parameter	Min	Max	Typ	Units
TG Output Frequency Range	0.10	>6000		MHz
TG Output Power	-2	+7	+3	dBm
TG Output Flatness	-3	+3	+/- 2	dB
TG Dynamic Range, 3KHz RBW			>80	dB
TG Output VSWR	1.2	3.1	2.0	VSWR
SG Output Frequency Range (w/ OPT 1 )	32 (24)	4400 (6000)		MHz
SG Output Power @ Max Setting	+6	+10	+7	dBm
SG Step Size	0.5	4.00		KHz
1 <sup>st</sup> LO Frequency Range (SA Input)	1	7		GHz
1 <sup>st</sup> LO Min Power from User's SA	0	+15		dBm
10MHz Reference Input power Range	-20	+15		dBm
DC Power Input thru USB Port	4.75	5.2		vdc

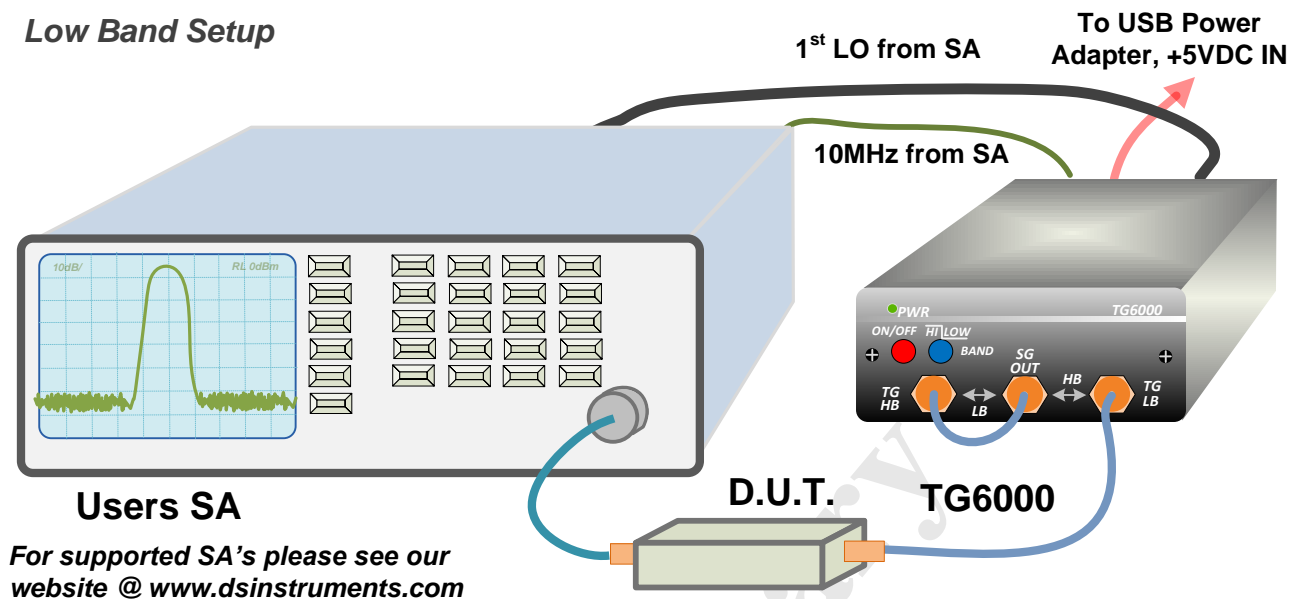
## TG6000 Front and Rear Panel Features



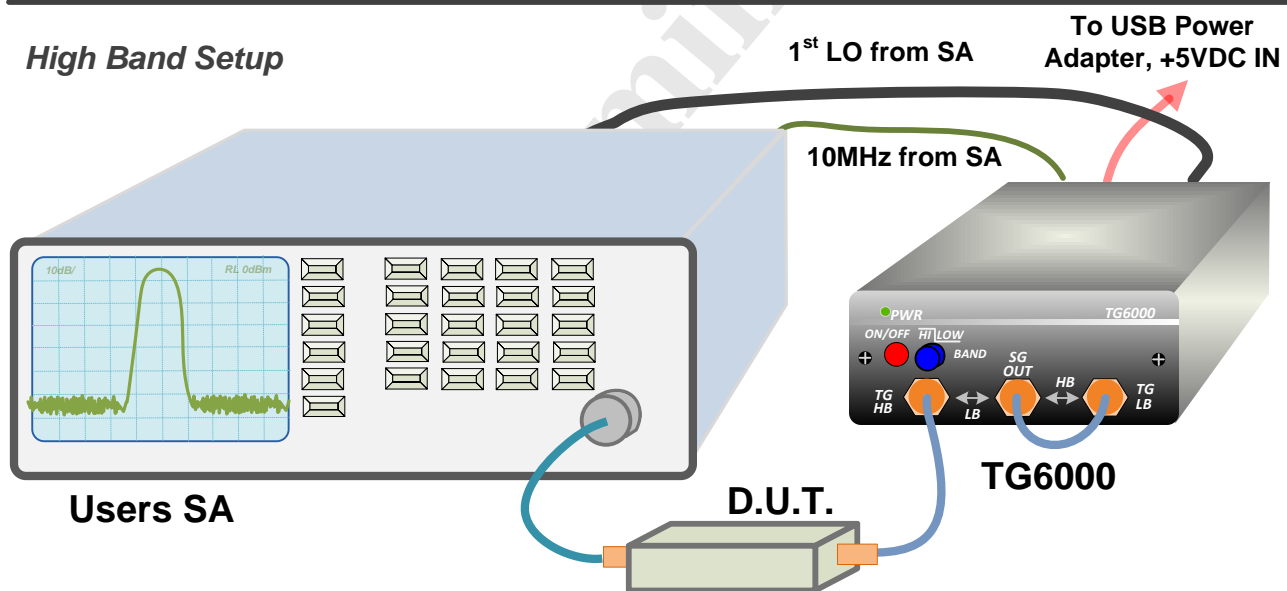
# TG6000

## Typical User connections

### Low Band Setup



### High Band Setup



## Ordering Information

Model TG6000, 0.1 to >6000MHz TG Output,  
32 to 4400MHz SG Output

\$895.00

Model TG6000-1 w/Opt. 1, 0.1 to >6000MHz TG Output,  
24 to 6000MHz SG Output

\$995.00

[www.ds instruments.com](http://www.ds instruments.com)

TG6000 Rev. 1.0