

## Product Description

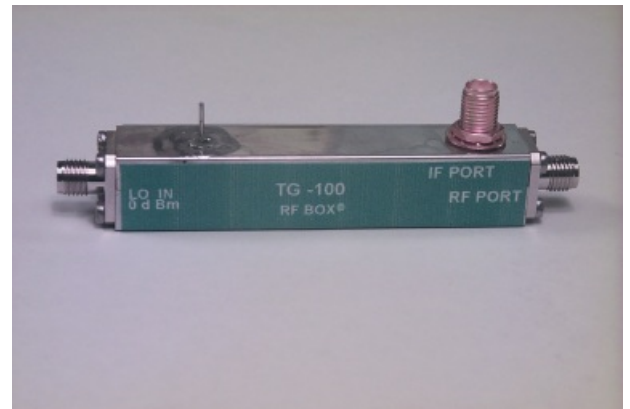
DKD Instrument's tracking generator module allows generation of a wide band signal source for use in swept measurements using a Spectrum Analyzer. The Analyzer used must provide a 1st LO output sample.. The user must supply +8VDC and an external RF signal at the frequency of the first IF. Typically the frequency of the user supplied RF will be different for each instrument.

This module can be used with many manufactures spectrum analyzers. It has been tested with the HP8566, HP8568 and HP8569 spectrum analyzers. For other instruments the user must determine if the LO's past the 1st LO are "fixed". Once this is known then a signal set to the 1st IF frequency is applied to either the RF or IF port. The selection of which port to use is covered in the application note AP-100.

The TG-100 has three SMA female connectors for application of the two RF signals and extraction of the TG signal. Dimensions of the case can be found at <http://www.dkdist.com/RFext/Smacase.pdf>

## Features

- **Broadband 0.001- 4.5Ghz Output**
- **Conversion loss to RF output is 7dB typical**
- **Small Enclosure**
- **SMA (F) RF Connectors**
- **Requires +8VDC @150MA**



## Typical Electrical Specifications, $T_A = +25\text{ C}$

Parameter		Units
LO Input Frequency Range @ 0 dBm	100 - 6000	MHz
TG Output Frequency Range	0.01- 4500 (Usable past 5GHz)	MHz
RF/IF input to TG output Conversion Loss(Typical)	7	dB
IF Port output Bandwidth	DC to 2500	MHz
RF Port output Bandwidth	500 to 4200	MHz
TG Signal Out Flatness ( IF port used as Output)	+/- 3dB (DC to 2.2GHz)	
TG Signal Out Flatness (RF port used as Output)	+/- 3dB (2.0 to 4.2 GHz)	
Minimum/Maximum LO input power	-2/+10	dBm
VCC needed at DC feedthru	+8.0	volts