DKD INSTRUMENTS®

TG-200

BROAD BAND TRACKING GENERATOR

Product Description

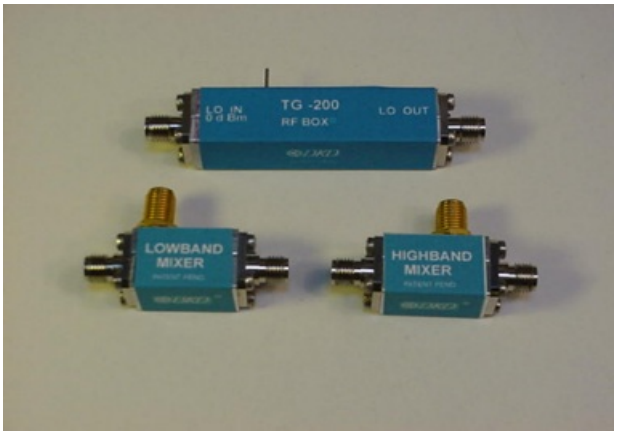
DKD Instrument's TG200 subsystem allows generation of a wide band signal source for use in swept measurements using a Spectrum Analyzers LO output and an external Signal Generator.The Analyzer used must provide a 1st LO output sample. The user must supply +8VDC and an external RF signal at the frequency of the first IF. Typically the frequency of the user supplied RF will be different for each instrument.

This system 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-200 is comprised of a LO Amp module and two mixers. Depending on the band coverage desired the user connects LO port the selected mixer to the output of the LO Amplifier. An external signal signal generator is connected to either the RF or IF mixer port depending on band coverage desired.

Features

- **Broadband 0.001- 6Ghz Output**
- **Conversion loss to RF output is 7dB typical**
- **Small Enclosures**
- **SMA (F) RF Connectors**
- **Requires +8VDC @150MA**



Typical Electrical Specifications, T_A = +25 C

Parameter		Units
LO Input Frequency Range @ 0 dBm	100 - 6000	MHz
TG Output Frequency Range	0.01- 6000 (Usable past 7Ghz)	MHz
RF/IF input to TG output Conversion Loss(Typical)	7	dB
IF Port output Bandwidth (TG Ouput IF port, SG on R port Lowband Mixer)	DC to 2500 (Mixer #1)	MHZ
RF Port output Bandwidth (TG Output R port, SG on IF port of Highband Mixer)	1600 to 6000 (Mixer #2)	MHz
TG Signal Out Flatness (IF port of Lowband Mixer used as TG Output)	+/- 3dB (DC to 2.2GHz)	
TG Signal Out Flatness (RF port of Highband Mixer used as TG Output)	+/- 3dB (1.6 to 6.0 GHz)	
Minimum/Maximum LO input power	-2/+10	dBm
VCC needed at DC feedthru	+8.0	volts

For price, delivery, and to place orders, please contact DKD Instruments:
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