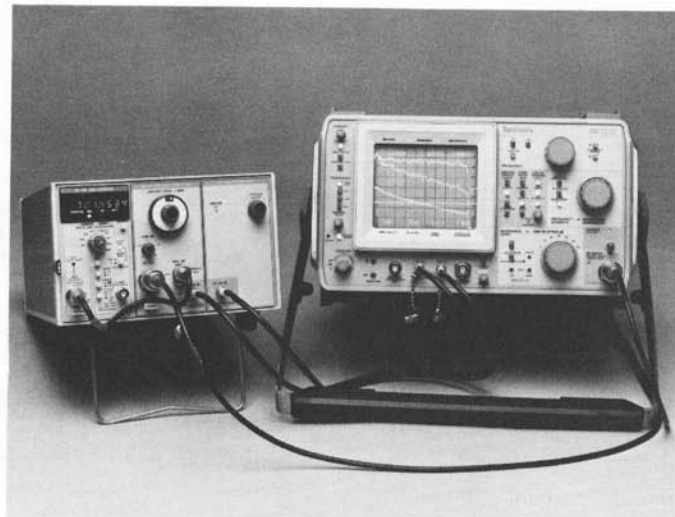


For swept frequency tests and precise frequency measurements, the TR 502 Tracking Generator may be used with a DC 508A Option 07 Digital Counter, in a TM 503 Option 07 Power Module, with a 7L14 Spectrum Analyzer in 7603 Option 06 Mainframe.



TR 503 Tracking Generating used with a DC 508A Option 01 Digital Counter, in a TM 503 Power Module, with a 492 Spectrum Analyzer.

TR 502/TR 503

TR 502 Has Automatic Counter Dot Marker When Used with DC 508A Option 07 and 7L14

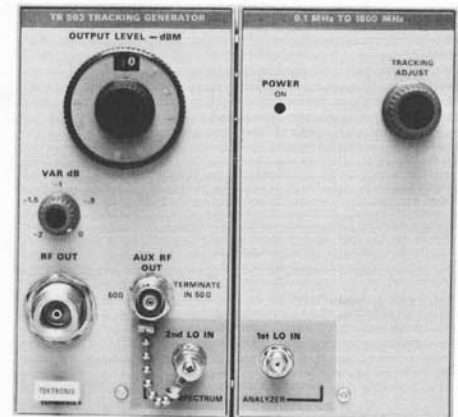
The TR 502 works with the 7L12 and 7L14 and the TR 503 works with the 492/492P/or 496/496P Spectrum Analyzers to provide constant level, calibrated rf sources for swept frequency tests to 1800 MHz.

When used as a cw source, with the analyzer in a manual mode, these systems have excellent stability. This stability enhances the narrow bandwidth measurement capability of the analyzer/tracking generator combination.

The tracking generators are two-wide units compatible with the TM 500 Modular Instrument Series.

The TR 502/TR 503 AUX RF OUTPUT may be used to drive a frequency counter. Frequencies up to 1800 MHz may be measured accurately in the presence of high level adjacent signals to the sensitivity limits of the analyzer.

The tracking generator sweep rates are controlled with the spectrum analyzer, and the output level is controlled from the tracking generator. The output frequency of the tracking generator is the same as the frequency of the analyzer at any instant of the sweep.



OUTPUT CONNECTORS

Rf Out — 50 Ω nominal impedance, vswr 2:1 or less.

Aux Rf Out — For use with frequency counter.

Included accessories TR 502 — Two 50 Ω coaxial cables (012-0649-00), logic interface cable, (012-0648-00), adapter N male to BNC female (103-0045-00), Adapter 3mm male to BNC female (015-1018-00), retainer plug-in (343-0604-00).

Included accessories TR 503 — Two 50 Ω coaxial cables, 28.5 in. (012-0649-00), Adapter, N male to BNC female (103-0045-00), Retainer Plug-in 343-0604-01.

CHARACTERISTICS

	TR503/492/492P 496/496P	TR502/7L14	TR502/7L12
Freq. Range	100 kHz — 1.8 GHz	100 kHz — 1.8 GHz	100 kHz — 1.8 GHz
Output Level	(Max) 0 dBm \pm 0.5 dB	0 dBm \pm 0.5 dB	0 dBm \pm 0.5 dB
Range	0 to -59 dB in 10 dB and 1 dB steps	0 to -59 dB in 10 dB and 1 dB steps	0 to -59 dB in 10 dB and 1 dB steps
Flatness	Within \pm 2.25 dB Max from 100 kHz to 1.8 GHz (Typically \pm 1.5 dB)	Within \pm 2 dB max from 100 kHz to 1.8 GHz (Typically \pm 1.5 dB)	Within \pm 3.0 dB max from 100 kHz to 1.8 GHz (Typically \pm 2.0 dB)
Dynamic Range	\geq 110 dB	\geq 110 dB	\geq 100 dB
Residual FM	50 Hz p-p	10 Hz p-p	200 Hz p-p
Output Impedance	50 Ω Nominal, VSWR 2:1 or less to 1.8 GHz	50 Ω nominal, VSWR 2:1 or less to 1.8 GHz	50 Ω nominal, VSWR 2:1 or less to 1.8 GHz
Auxiliary Output	0.1 V RMS into 50 Ω Load	0.1 V RMS into 50 Ω Load	0.1 V RMS into 50 Ω Load
Spurious Output	Harmonic 20 dBc Non Harmonic 40 dBc	Harmonic 20 dBc Non Harmonic 40 dBc	Harmonic 20 dBc Non Harmonic 40 dBc

ORDERING INFORMATION

TR 502 Tracking Generator \$6300

Suggested Complementary Items

TM 503 Option 07 Power Module \$310

DC 508A Option 07 Digital Counter \$1825

Blank Panel 016-0195-03 \$21

10 dB, 3 mm attenuator 307-0553-00

(used in the 2nd LO input line to improve

TR 502/7L12 isolation) \$30

TR 503 Tracking Generator \$6300

Suggested Complementary Items

TM 503 Power Module \$285

DC 508A Option 01 Digital Counter Add \$1775

Blank Panel 016-0195-03 \$21