



C A T V
M u l t i - C a r r i e r
R a c k - M o u n t R F T e s t S i g n a l
G e n e r a t o r
M o d e l 1 6 8 5

CATV Multi-Carrier RF Test Signal Generator Model 1685

System Alignment Generator

Spectrum Analyzers are useful for system frequency-response testing. The cable system's video carriers act as stimuli and the spectrum analyzer measures the response at any point in the cascade of amplifiers. The beauty of this technique is that there is no subscriber interference. The shortcoming is that if your system is not carrying channels throughout the passband, the spectrum analyzer has nothing to measure. Using a 1685's CW continuous wave test signals provides stable, clean stimuli for frequency response testing that won't interfere with existing channels.

Front



Back

1685 SPECIFICATIONS

	Frequency (MHz)		
Max output level (dBmV)	5-860	861-1000	1001-1218
1 to 2 carriers	+59	+57	+55
3 to 4 carriers	+55	+53	+51
5 to 6 carriers	+52	+50	+48
7 to 8 carriers	+50	+48	+46

Optional Built-in Attenuator0 to 70 dB in 10 & 20 dB steps

Individual amplitude adjustment: 0 to -13 dB

Amplitude stability±0.5 dB/setting

Spectral purity
(spurious & harmonic).....≥60 dBc

Residual hum≤0.01%

Frequency accuracy.....≥0.01% kHz (10 MHz to 1218 MHz)
±1.0 kHz (5 MHz to 10 MHz)

Output impedance 75 Ω

Size (W x H x D) 1.75" x 19" (std. rack) x 12.5"
(4.5cm) x (48.3cm) x (31.8cm)

Power 100-240 VAC, 50-60 Hz

CertificationsCE

Specifications subject to change without notice.

STANDARD ACCESSORIES

- User operation manual
- AC power line cord

1685

The Model 1685 is a headend/hubsite RF multi-carrier generator. Each CW carrier can be activated individually or simultaneously. The RF carriers generated are extremely clean and stable, thus making the 1685 an ideal instrument for testing/aligning the CATV forward path (downstream) band.

Features:

- Up to eight individually or simultaneously activated RF carriers
- Spectral purity in excess of 60 dB allows for accurate hum and noise evaluation without interference
- Configurable with a combined single output connector, or a separate dedicated output connector for each test signal

CATV Applications:

- System alignment
- Carrier-to-noise measurement
- Carrier-to-hum modulation

Designed and Manufactured by:

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