



8690B/8706A, 8707A, 8705A



8709A



8404A



11531A

8705A, 8706A, 8707A Multiband System

Multiband systems 400 kHz to 50 GHz are available using the 8706A Control Unit Plug-in and the 8707A RF Unit Holder. The 8706A allows pushbutton control of RF plug-ins installed in the 8707A. The 8705A Multiplexer switches RF signals up to 12.4 GHz from three RF units and provides an ALC signal for the 8690B leveling circuits.

Specifications

8705A Multiplexer

Frequency range: dc to 12.4 GHz. Output port SWR ≤ 1.67 . Input port SWR ≤ 1.35 .

Insertion loss: 3 dB.

Weight: net, 7.8 kg (17 lb). Shipping, 10 kg (22 lb).

8706A Control Plug-in

Compatibility: the 8706A controls up to three 8707A RF unit holders; Option H26 provides remote band switching of the 8699B plug-in.

Weight: net, 7.3 kg (16 lb). Shipping, 11.4 kg (25 lb).

8707A RF Unit Holder

Capability: accepts up to three 8690 plug-ins.

Sweep functions

Normal: permits all 8690B sweep functions.

Preset: allows screwdriver setting of individual start/stop points.

Weight: net, 13.6 kg (30 lb). Shipping, 16.8 kg (37 lb).

8709A Phase Lock Synchronizer

The 8709A Synchronizer is a phase comparator designed to stabilize the frequency of both HP BWO and solid state sources by phase locking to a reference oscillator. Under these conditions system stability is determined primarily by the stability of the reference oscillator. Phase lock capability is standard on solid state plug-ins from 0.01 to 22 GHz. Order Option J54 for BWO plug-ins. Information on complete phase-locked systems available on request.

Specifications

Input frequency: the locking frequency of the 8709A is 20 MHz. This signal is obtained by multiplying and mixing the reference oscillator with the microwave signal.

Sensitivity: -65 dBm.

Minimum output voltage: high level ± 12.0 V dc; low level ± 8.0 V dc.

Modulation sensitivity: 8690 BWO Option J54 plug-ins, 0.5 to 6.0 MHz/V. 8620 solid state plug-ins 6.0 MHz/V

Weight: net, 4.5 kg (10 lb). Shipping, 5.3 kg (11.6 lb).

8404A Power Meter Leveling Amplifier

The 8404A Leveling Amplifier permits the 431B/C or 432A/B/C Power Meter to level both the 8620 and 8690 sweeper plug-ins. RF output is leveled to ± 0.5 dB or less when connected to the AM input of the sweeper.

11531A Mainframe Test Plug-in

The 11531A Test Unit Plug-in allows complete calibration of the 8690 mainframe, including sweep modes, markers and BWO. All voltages are selected from a front panel switch.

Ordering Information

8404A Power Meter Leveling Amplifier
 Opt 001: 4 line BCD level control
 8705A Signal Multiplexer dc-12.4 GHz
 8706A Control Unit Plug-in
 8707A RF Unit Holder
 8709A Phase-Lock Synchronizer
 11531A Mainframe Test Unit Plug-in

Price

\$750
 add \$210
 \$3550
 \$1200
 \$3000
 \$1500
 \$550