

Product Name :
Microwave and Waveguide Experimental Setup

Product Code :
SH198



Description :

Microwave and Waveguide Experimental Setup

Technical Specification :

Microwave and Waveguide Experimental Setup

Solid-state microwave signal source

Frequency range: 8.6 ~ 9.6 GHz; draft: $\pm 5\%$ —10-4/15 min; display error: ± 40 MHz

Output power: > 20 mW

Attenuation adjustment range: > 20 dB

Waveform: Equal amplitude

Internal modulation: square-wave; repetition frequency 1000 Hz

External modulation: polarity: +/-; amplitude: 5 ~ 40 VP-P; width: 0.2 ~ 3 μ s; frequency: 300

Narrow-band frequency scan: ~ 3000 Hz

RF output connector: scan width: > 50 MHz; continuously adjustable

Scan output: N-type 50 Ω coaxial connector

Slotted line measurement device

Frequency range 8.2 GHz ~ 12.4 GHz

Standing-wave coefficient ≤ 1.03 (synthesis voltage)

Probe travel: 95 mm; insertion depth: 1.5 mm

Frequency-selective amplifier

Frequency range: 400 Hz ~ 10 kHz

Input voltage dynamic range: 10 μ V ~ 2000 mV

Sensitivity: 10 μ V (full scale)

Input impedance: 20 k Ω (1 kHz)

Centimeter wave power meter
Frequency range: 8.6 GHz ~ 9.6 GHz
Power range: 100 μ W ~ 100 mW
Microwave wavemeter
Frequency range: 8.2 GHz ~ 12.4 GHz
Resolution: 0.005 GHz
Waveguides
Cross section dimensions: inner: 22.86 mm $\times$ 10.16 mm (EIA: WR90 or IEC: R100)
Parts List
Solid-state microwave signal source (@3 cm)
Slotted line measurement device (3 cm microwave)
Frequency-selective amplifier
Centimeter wave power meter
Variable attenuator
Wavelength meter
Detector
Cable
Detector display
Isolator
Circulator
Variable reactor
Single micrometer tuner
Straight waveguide
Matching load
Short-circuit plate
Resonant cavity
Coupler plate
Dielectric material sample
Waveguide stand support
Screw
Instructional manual
Precision variable attenuator
H-type 90 degree curve waveguide
H-type waveguide switch
Straight waveguide (L=150)
Directional coupler
Mismatched load (VSWR 1.5 or 2.0)
Mismatched load (VSWR 6-7)

Naugralabequipments

Website: www.naugralabequipments.com, **Email:** sales@naugralabequipments.com

Address: 6148/6, Guru Nanak Marg, Ambala Cantt, Haryana, India. **Phone:** +91-9896600003