

MICROWAVE TEST EQUIPMENT



WAVEGUIDE INSTRUMENTATION For waveguide systems operating 2.60-40 GHz

Instrument Name	Uses	Family ¹ Model Number	Frequency coverage by band - GHz									
			S 2.6- 3.95	G 3.95- 5.85	J 5.30- 8.20	H 7.05- 10.0	X 8.20- 12.4	M 10.0- 15.0	P 12.4- 18.0	K 18.0- 26.5	R 26.5- 40.0	
Adapters	Interconnect coaxial-waveguide systems	281A	X	X	X	X	X					
	Interconnect two different waveguide systems	281B					X		X			
		292A					X		X	X		
		292B					X	X				
Low-pass filters	Output filters for signal sources to eliminate harmonics	362A					X	X	X	X	X	
Variable attenuators	Measurement of reflection coefficient, insertion loss, transfer characteristics by RF substitution; reduction of power levels; reduction of source mismatch	382A 375A	X	X	X	X	X X		X X	X	X	
Crystal Detectors	RF detection; reflection coefficient, attenuation measurements	424A 422A	X	X	X	X	X	X	X	X	X	
Detector mount	Tunable detector mount for accurate matching of waveguide sections to crystal or bolometer	485B					X					
Thermistor mount	Power measurements with 432 series (486A), and 430C (487B).	486A 487B	X	X	X	X	X X	X	X X	X	X	
Frequency meters	Frequency measurements	532A 532B			X	X	X		X	X	X	
Directional couplers	Power measurements; power leveling; reflection measurements; isolation	752A 752C 752D			X X X	X X X	X X X		X X X	X X X	X X X	
Slotted line systems	Measurement of SWR, wavelength, impedance; fixed and swept-frequency slotted line measurements	810B 815B		X	X	X	X		X	X	X	
PIN modulators	Sinusoidal and complex AM and RF pulsing of microwave sources without incidental FM	8735A 8735B					X X					
Fixed and sliding loads	Fixed loads for terminating waveguide systems. Sliding loads for separating load reflections from other system reflections	910A 910B 914A 914B		X	X X	X X	X X		X X	X	X	
Fixed and sliding shorts	Establish measurement planes, reflection phase and magnitude references	920A 920B 923A 930A			X	X	X X		X	X	X	
Mixers	Harmonic Mixer	932A							X			
Slide screw tuners Phase shifters	Correct discontinuities in waveguide Provide phase control	870A 885A			X		X X		X X			

¹Instrument model number consists of family model number prefixed by letter of waveguide band, E.G., X281B specifies X-band waveguide to coax adapter.