

Product Datasheet - Technical Specifications



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The 82401/82406 series millimeter-wave source modules excel in terms of output power and application convenience. This series source module can work together with a microwave signal generator to build up a millimeter-wave signal generation system. The module is fed and controlled by the RF signal and software through corresponding special cables, respectively. The output frequency and power are controlled by the synthesized signal source. A special power adapter provides the DC drive for the modules.

- Output Frequency range: 50GHz ~ 500GHz.
- Power supply: 15V adapter.
- Input frequency: < 20GHz Applicable to various models of vector network analyzer.
- Compact and portable, low consumption, low heating volume, standard waveguide output.
- Direct display: when the signal source is working, it can directly show the state of the source module's output port.
- Built-in high-gain microwave amplifier which lowers the requirement on signal generator.

Typical Applications

The 82401/82406 series source modules can realize the frequency extension of microwave signal source to cover 50GHz ~ 500GHz, which can satisfy the measurement requirements of high-frequency signal in the fields of millimeter-wave radar, communications, and RCS (Radar Cross-Section).



Technical Specifications

Model / Index	82406	82401N	82406A	82401QA	82406B	82406C	82401SA	82406D	82406E
Output frequency range (GHz)	50 ... 75	60~90	75 ... 110	90 ... 140	110 ... 170	170 ... 220	170 ... 260	220 ... 325	325 ... 500
Output power (dBm)	≥+13 16 (typ.)	≥+11 13 (typ.)	≥+10 15 (typ.)	≥+5 10 (typ.)	≥+2 10 (typ.)	≥-2 2 (typ.)	≥-6 0 (typ.)	≥-8 -3 (typ.)	≥-18 -10 (typ.)
Multiplication counts	4	6	6	6	12	12	12	18	18
Amplitude-stabilized options	Y	Y	Y	Y	Y	N	N	N	N
Input frequency range(GHz)	12.5 ... 18.75	10.0 ... 15.0	12.50 ... 18.33	15.0 ... 23.3	9.17 ... 14.17	14.17 ... 18.33	14.17 ... 21.67	12.2 ... 18.06	9.02 ... 13.89
Dimensions W×H×D (mm)	120×85×240								
Power type	15V-16V adapter								
Power consumption	<20W								
RF input connector type	3.5mm (f)								
Output connector type	WR15	WR12	WR10	WR8.0	WR6.5	WR5.1	WR4.3	WR3.4	WR2.2