

AV82406/A/B/C/D/E Source Module

(50GHz~75GHz/75GHz~110GHz /110GHz~170GHz/170GHz~220GHz/
220GHz~325GHz/ 325GHz~500GHz)



Product Overview

AV82406/A/B/C/D/E Source Module is a new generation of signal source frequency extension products developed on the basis of AV12413/AV12412 and AV82401. Compared with the last generation, the new series has obvious improvement in output power and application convenience. This series frequency multiplication source module can work together with a microwave signal source to build up a millimeter-wave signal generation system. The RF signal needed by frequency multiplication source module is input from a synthesized signal source via RF cable. Software control is realized by the dedicated connection cable of the source module. Parameters as frequency, power are controlled by the synthesized signal source, and the DC drive is supplied by the dedicated power adapter.

Main Features

- Frequency range: 50GHz~500GHz
- Power supply: 15V adapter
- Input frequency: < 20GHz
- Compact, lightweight, low power consumption, small thermal volume, standard WG output
- Direct state display: when the multiplication signal source is working, its displayed state is the output state of the source port.
- Built-in high-gain microwave amplifier; low requirement on signal source output power.

Typical Applications

AV82406/A/B/C/D/E Source Module can conduct the frequency extension of microwave signal source and realize 50GHz ~ 500GHz signal generation, which fulfills the requirements on high-frequency signal test in fields of millimeter-wave radar, communication, and RCS.



Technical Specifications

Model	AV82406	AV82406A	AV82406B	AV82406C	AV82406D	AV82406E
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Frequency range (GHz)	50~75	75~110	110~170	170~220	220~325	325~500
Multiplication counts	4	6	12	12	18	36
Output power	≥+13dBm	≥+10dBm	≥+2dBm	≥-2dBm	≥-8dBm	≥-18dBm
RF input interface	3.5mm female connector					
Power supply	15V-16V adapter					
Power consumption	<20W					
Output interface	WR15	WR10	WR6.5	WR5.1	WR3.4	WR2.2
Size (W×H×D)	240mm×120mm×85mm(without corner protection)					

Ordering Information

Main Unit

Model	Description	Frequency range
AV82406	Source module	50GHz~75GHz
AV82406 A		75GHz~110GHz
AV82406 B		110GHz~170GHz
AV82406 C		170GHz~220GHz
AV82406 D		220GHz~325GHz
AV82406 E		325GHz~500GHz

Standard Package

No.	Description	Remarks
1	Power Cord	Standard tri-prong power cord: 1 pc
2	User Manual	2 copies
3	Control Cable	Used for information interchange between the main unit and the source module: 1 pc
4	Certificate of Conformity	1 copy
5	Power Adapter	15V-16V DC output, 1 pc