

Quality&Precise



MAXWELLON 82407

5kHz~8GHz/9kHz~20GHz

Spectrum Analyzer Frequency Extension
Module2023

Maxwellon

Maxwellon 82407 series Spectrum Analyzer Frequency Extension Module are designed mainly for millimeter-wave frequency extension of spectrum analysis, adopts standard waveguide interface which corresponding to its frequency range as its input interface. LO input adopts 2.4mmfemale coaxial connector and IF output adopts 3.5mm female coaxial connector, it can be used as the front-end of millimeter-wave signal receiver.

■ Key Feature

- Wide frequency range cover from 50GHz to 750GHz
- Low displayed average noise level up to -150dBm @ 1Hz RBW (typical)
- Intelligent USB interface is used to interconnect with the main instrument to realize automatic recognition of frequency extension module and automatic allocation of frequency conversion loss.
- 82407/NB/A/B/C/D size: 72 ×26 ×112mm
- 82407NC/QA/TA/R size: 120×85×240 mm

■ Specification

Model	82407	82407NB	82407A	82407B	82407C	82407D
Frequency Range	50-75	60-90	75-110	110-170	170-220	220-325
Harmonics	5	6	7	9	7	9
Conversion Loss	24	24	28	36	40	48
Noise Level (dBm/Hz)	-132	-132	-130	-120	-115	-110
LO Power Range	8-12(dBm)					
RF Max. Input Level (dBm)	20(dBm)					
Dimension	W×H×D ≤110×75×25.2mm					

Model	82407NC	82407QA	82407SA	82407TA	82407R	82407U
Frequency Range	60-90	90-140	170-260	260-400	325-500	500-750
Harmonics	6	6	2	18	24	48
Conversion Loss	12	16	16	18	30	25
Noise Level (dBm/Hz)	-150	-150	-140	-150	-140	-140
LO Power Range	8-12(dBm)					
RF Max. Input Level (dBm)	15(dBm)					
Dimension	W×H×D ≤120×85×240mm					

Model	82407/NB/A/B/C/D	82407NC/QA/TA/R
Power Consumption	≤5W	≤30W
Interface	RF Interface: Standard Rectangular Waveguide Interface; IF Interface: SMA (F), 50Ω; LO Interface: 2.4mm Coaxial (F), 50Ω; Communication Interface: Mini USB (F, USB2.0)	RF Interface: Standard Rectangular Waveguide Interface; IF Interface: SMA (F), 50Ω; LO Interface: 3.5mm Coaxial (F), 50Ω; Communication Interface: Mini USB (F, USB2.0)
Working Temp.	0℃ - +50℃	
Storage Temp.	-40℃ - +70℃	
Dimension	W×H×D=72mm×26mm×112mm	W×H×D=120mm×85mm×240mm
Weight	≤400g	≤5kg

■ Ordering Information

Model

Model	Name	Description
82407	Frequency Extension Module	50GHz to 75 GHz
82407NB	Frequency Extension Module	60GHz to 90 GHz
82407NC	Frequency Extension Module	60GHz to 90 GHz
82407A	Frequency Extension Module	75GHz to 110 GHz
82407QA	Frequency Extension Module	90 GHz to 140 GHz
82407B	Frequency Extension Module	110GHz to 170 GHz
82407C	Frequency Extension Module	220GHz to 325 GHz
82407D	Frequency Extension Module	260GHz to 400 GHz
82407TA	Frequency Extension Module	325GHz to 500 GHz
82407R	Frequency Extension Module	500GHz to 750GHz

Standard

No.	Name	Qty
1	USB 2.0 cable	1pc
2	User Manual	1pc
3	Certification of Conformity	1pc

Options

Part No.	Name	Description
82407-H01	2.4mm RF Cable	Connect the spectrum LO output port to frequency extension Module LO inout port
82407-H02	SMA RF Cable	Connect the Spectrum Analyzer IF Input Port to Frequency Extension Module IF Output Port
82407-H03	Adaper	2.4mm(f)-3.5mm(m) used in 82407 NC/QA/TA/R



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