



Section 8-4: Spectrum Analyzer Frequency Extenders

www.3jmicrowave.com Frequency Coverage: 18 to 110 GHz

Applications:

- Spectrum Analyzers
- Bench Testing
- Instrumentations

Features:

- Low Spurious
- Low Conversion Loss
- In 8 Waveguide Bands



Descriptions:

HJ Microwave, Inc. offers a complete line of spectrum analyzer frequency extenders in 8 waveguide bands. The series spectrum analyzer frequency extenders feature low spurious and low conversion loss. The frequency extenders are designed to be compatible with the major brand spectrum analyzers. The frequency extenders are excellent

choices to expand the capability of the spectrum measurement from frequency range of below 18 GHz to the 8 millimeter-wave bands from K to W-band in the frequency range of 18 to 110 GHz. The spectrum analyzer extenders are sorted in category of **EXTSPA** series spectrum analyzer extenders.

EXTSPA Spectrum Analyzer Frequency Extender Specifications*

Model Number**	EXTSPA-x-00							
WG Band	WR-42	WR-34	WR-28	WR-22	WR-19	WR15	WR-12	WR-10
Extended RF Frequency Range (GHz)	18 to 26.5	22 to 33	26.5 to 40	33 to 50	40 to 60	50 to 75	60 to 90	75 to 110
RF Bandwidth (GHz)	Full Waveguide Band							
Input 1 dB Compression Point (dBm)	0.0						-5.0	
Harmonics Order	4	6	8	10	12	14	16	18
Conversion Loss (dB)	-20.0	-22.0	-24.0	-26.0	-30.0	-35.0	-40.0	-44.0
Minimum Detectable Signal (dBm)	< 90.0							
In-Band Spurious (dB)	-50							
Extended Port WG Flange	UG595/U	UG595/UM	UG599/U	UG383/U	UG383/UM	UG385/U	UG387/U	UD387/UM
IF/LO Connectors	SMA (F)							
Outline								

* Please consult the factory for more technical details

** Please see "how to order" for the model number details

How to Order:

EXTSPA-x-00

Waveguide Band ↑ ↑ Factory Reserved

WG-BAND	K	WR34	Ka	Q	U	V	E	W
Designation	K	J	A	Q	U	V	E	W



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Model No. Example: Model Number of E-Band Spectrum Analyzer
Frequency Extender: **EXDSPA-E-00**

Outline: Please consult the factory for the outline details