



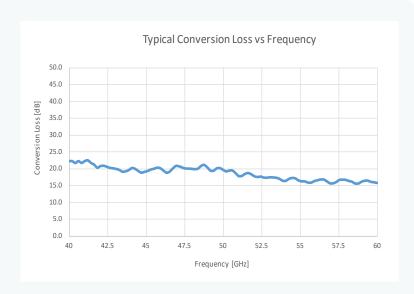
WR-19 Harmonic Mixer 40-60 GHz: **WHMB-19-0001**

Farran's WHMB-19-0001 is a high performance harmonic mixer series offering low conversion loss with no bias required. Suitable for use with Keysight and Rohde & Schwarz spectrum analysers for frequency extension applications.



Key Facts:

- · Low conversion loss
- · Flat frequency response
- · Frequency coverage up to 500 GHz
- · Unbiased anti-parallel diode pair



"We have made many Farran purchases, including amplifiers, mixers and multipliers. They are all high-performance devices and always meet our expectations. Farran supplied each component with comprehensive set of test results and a manual, which is not necessarily a given in this industry."



APPLICATIONS

- · Spectrum analysis
- · mm-Wave instrumentation
- Signal processing
- · Phased locked loops



· User Manual

- · Diplexer (optional)
- · LO/IF cable (optional)

Microwave Circuit Designer & Engineer, Multinational Electronic Test Equipment Manufacturer.











Product Specification

Specification	Unit	Min	Тур	Max
Frequency Range	GHz	40	-	60
IF Frequency Range	MHz	DC	741	2000
LO Harmonic Number	-	-	4	-
LO Frequency Range	GHz	10	-	15
Mixer Conversion Loss SSB (n. trc. meas.)	dB	-	20	-
LO Input Power	dBm	+13	+15	+17
Test Port VSWR (typ.)	-	-	3.6:1	-
Test Port Flange (nom.)	-	WR-19, UG-383/UM		
LO/IF Connector (nom.)	-	SMA-F		
CW RF Input Level (typ.)	dBm	-	-	-10
CW RF Damage Level (nom.)	dBm	10	-	-
Weight (typ.)	g	-	165	-
Dimensions (approx.)	mm	60 x 28.5 x 34		
Operating Temperatures (nom.)	deg C	0	-	30
Integrated LO/IF Diplexer	-	No		
Bias	-	Not required		



SERVICES AVAILABLE

- Technical Support
- · Installation and Setup
- Maintenance
- Application Support
- Hardware Support

For more information on any of our products or services please visit our website: www.farran.com



TECHNICAL SUPPORT

- Technical support provided directly by our knowledgeable and friendly engineers.
- Support for pre- and postpurchase: system configuration, installation and troubleshooting.



PRODUCT INSIGHTS

- For more product insights register at www.farran.com/ customer
- Additional information: test data, CAD drawings and 3D models available.



WARRANTY

• Standard 1 year warranty.

Specification Definitions

Nominal value (nom.) – ensured by design, not tested. Measured value (min, max) – expected and warranted product performance obtained from the actual measurements of product sample. Non-traceable measured value (n. trc. meas.) – expected product performance obtained from the actual measurements of a product sample by means of using Farran's own equipment and methods. Traceable only to Farran laboratory equipment. Typical data (typ.) – value that represents the product specification met over 90% of bandwidth or a mean value. Specifications without limits – represent the warranted product performance; with values of no or a negligible deviation from the given value and as such have a secondary impact on the product performance.



