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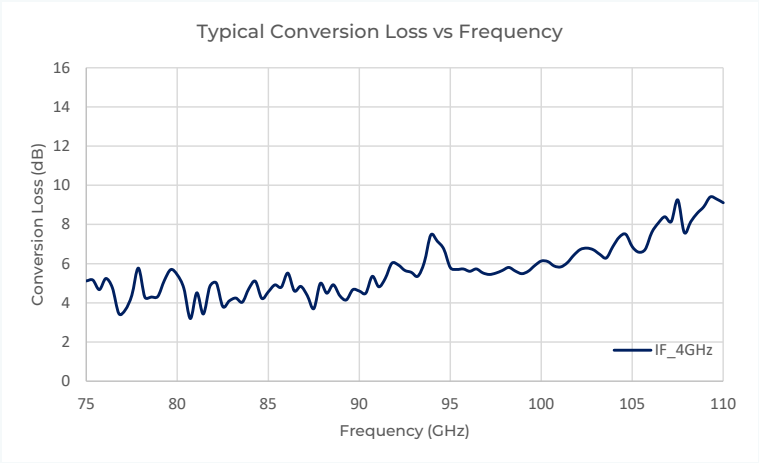
WR-10 Sub-Harmonic Mixer 75-110 GHz: **SPM-10-0002**

Farran Technology offers a wide variety of Sub-Harmonic mixers. These are based on planar technology and GaAs Schottky barrier beam lead diodes.

They feature low conversion loss, low noise figure, excellent noise suppression and LO-RF isolation. They are extremely rugged devices for their small physcal size and mass. Designs can be chosen from a portfolio of mixer architechures, depending on the customer's detailed requirments.

Key Facts:

- High Performance
- Sub-Harmonically pumped
- Low Noise Figure
- Low LO power level required
- Low Conversion Loss



APPLICATIONS

- Hetrodyne Receivers
- Instrumentation
- Imaging Front end
- Laboratory Test systems

ACCESSORIES

- User Manual

"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."

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

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Product Specification

Specification	Unit	Min	Typ	Max
RF Frequency Range	GHz	75	-	110
LO Frequency Range	GHz	37.5	-	55
IF Frequency[1]	GHz	0.01	-	15
Conversion Loss (CL)	dB	-	9	12
LO Drive level	mW	6	9	12
RF Waveguide	-	-	WR-10 UG-387/U-M	-
LO waveguide	-		WR-19 UG-383/U-M	
IF Connector	-		SMA (f)	

1 Operation on higher IF frequencies possible at the expense of CL/NF performance.

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 post-purchase: 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.