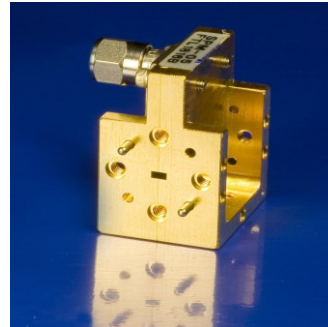


Datasheet
Description

A high performance subharmonically pumped mixer in WR-06 band.


Features

- High performance
- Full WR-06 band coverage
- Sub-harmonically pumped
- Low noise figure
- Low LO power level
- Low conversion loss

Applications

- Heterodyne receivers
- Instrumentation
- Imaging front ends

Specification	Unit	Min	Typ	Max
RF Frequency	GHz	110		170
LO Frequency	GHz	55		85
IF Frequency	GHz	0.1	4	10
Noise Figure DSB	dB	4	6	10
Tmix DSB	K		865	2610
Conversion Loss DSB	dB		6	10
LO Drive Level	mW	2	3.25	6
RF Waveguide	-	WR-06 UG-387/U-M		
LO Waveguide	-	WR-12 UG-387/U-M		
LO Connector	-	SMA (F)		

Notes:

Farran Technology reserves the right to change, without notice, the characteristic data and other specifications applied to this product. The product may be subject to Irish export restrictions.

Datasheet

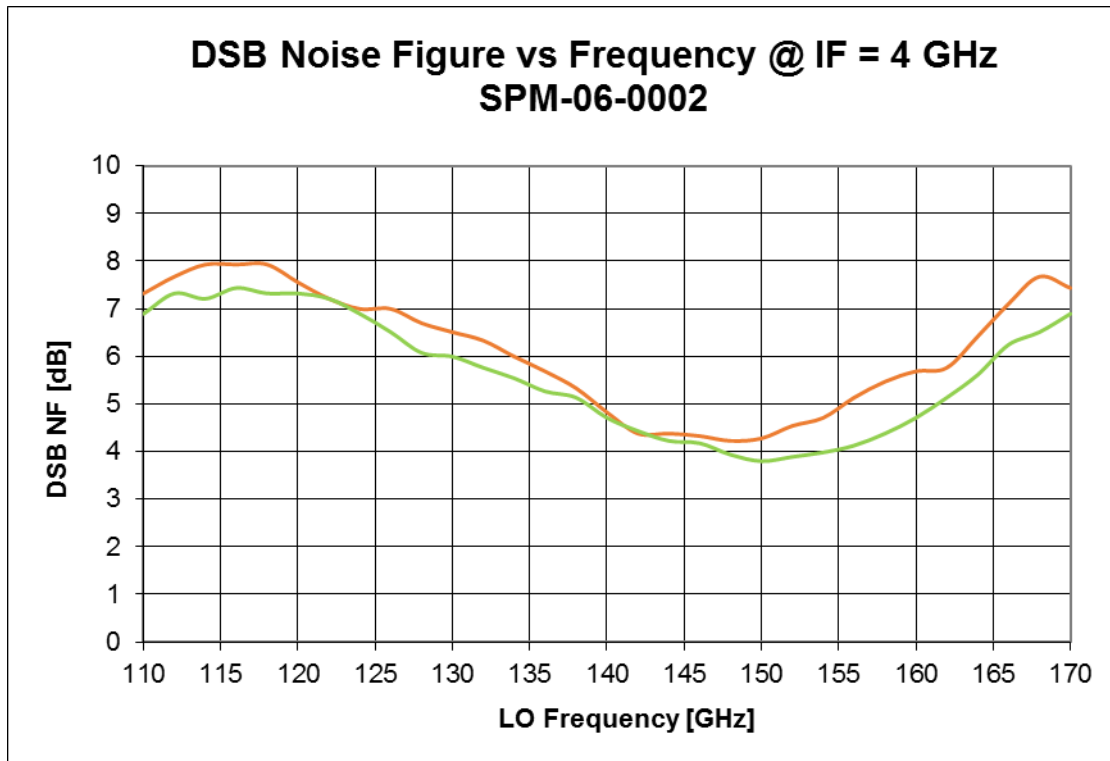


Figure 1. Typical full band performance of SPM-06-0002 with LO power = 3 mW.