Requirements for the Multiplier's Output

Vi
10-13 dBm
fi=(11.06 +/- 0.01) MHz

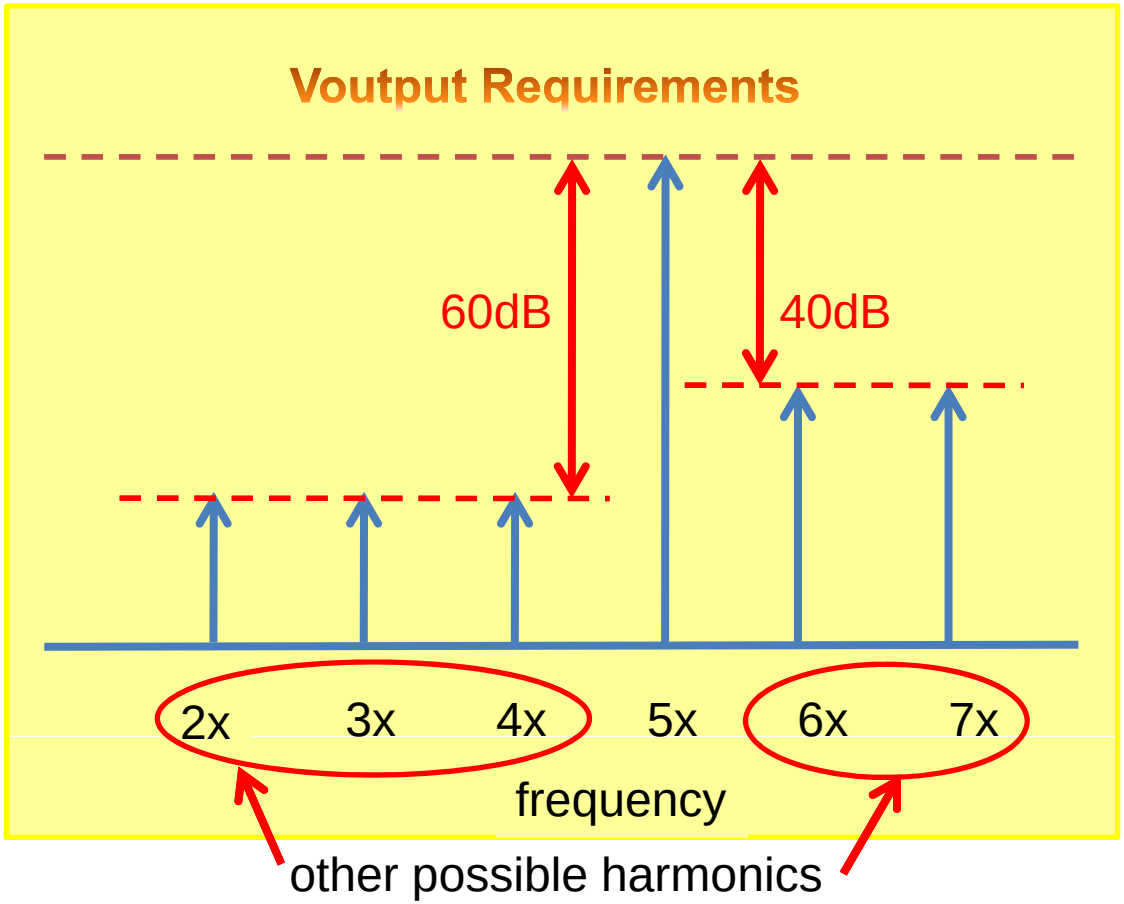
5x freq multiplier

Vo
36 +/- 1 dBm
f0=(55.30 +/- 0.05) MHz

P(f5) = 36-40 dBm

V(fi) / V(f5) < 1e-3
i=2x,3x,4x

V(fi) / V(f5) < 1e-2
i=6x,7x



Noise Specs

- Phase Noise

Frequency	Phase noise spec
10 Hz	-110 dBc/Hz
100 Hz	-140 dBc/Hz
1 kHz	-160 dBc/Hz
10 kHz	-165 dBc/Hz

- Amplitude Noise

Frequency	AM noise spec
10 Hz	-140 dBc/Hz
100 Hz	-150 dBc/Hz
1 kHz	-150 dBc/Hz
10 kHz	-150 dBc/Hz

Generic Specs from Wenzel's Catalogue

Typical Specifications:	Outputs To 1 GHz
Input Frequency	5 to 300 MHz
Input Signal Level (Minimum)	+10 to +15 dBm
Conversion Loss	-5 to +5 dB
Phase Noise (Input Referred)	-174 dBc/Hz
Output Level	To +20 dBm
Frequency	To 1 GHz
Harmonics	<-25 dBc
Sub-Harmonics	<-50 dBc
Supply Voltage	+15 VDC
Current Max.	200 mA
Dimensions	3 x 1.25 x 0.8"
Connectors	SMA
Multiplication Factor	Max Input Frequency
X3, X5, X7, X9, X11	300, 200, 100, 50, 10 MHz
CUSTOM OPTIONS	Specialty Connectors
Please specify when ordering	