

Specification	AXMW8596	Issue: 01	Date: 2005-02-01
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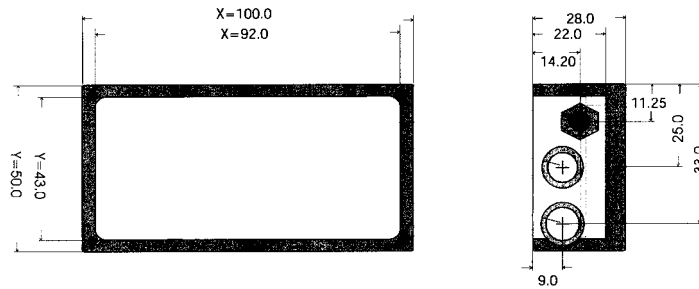
Oscillator type : Crystal Controlled Microwave Oscillator

Parameter	min.	typ.	max.	Unit	Condition
Frequency range	8.5		9.6	GHz	
Standard frequencies	6 frequencies within 4%				
Frequency stability				ppm	
Initial tolerance	-50		50	ppm	@25°C
vs. temperature in operating frequency range (steady state)	-100		100	ppm	-40°~+70°C
medium term (aging) over 24 hours	-1		1	ppm	@ constant temp.
Frequency selection					
Electronic Frequency Control	By grounding of appropriate selection pin				Note 2
RF output					
Signal waveform	SINUS				
Load	50			Ohm	
Load VSWR			1.5		
Output Power	50			mW	
Output Power Variation			2	dB	0°C ~ +70°C
			3	dB	-30°C ~ +70°C
			2	dB	between 6 frequencies
Spurious Outputs (Note 1)	50	65		dB	Fc ± 5 MHz
	90				Outside fc ± 5 MHz
AM Noise (Note 1)			-90	dBc	fc ± 30 MHz ~60 MHz
			-75	dBc	elsewhere
FM Noise (Note 1)			-68	dBc	fc ± 30 MHz ~60 MHz
Vibration Sensitivity			10	Hz / g	See graph 1
Supply voltage V_S	27.5	28.0	28.5	V	
Current consumption (steady state)			600	mA	
Power line Ripple Noise (pk-pk)			500	mV	50 Hz ~ 200 MHz
Relative Humidity			80	%	Continuous
			100	%	During warm-up
Storage temperature range	-55		+85	°C	95% R.H.
Enclosure L x W x H (see drawing)	100 x 70 x 30			mm	
Weight			TBD	gram	
Packing	bulk				
ESD Sensitivity	1500			V	HBM as in IEC 61000-4-2

Notes:

1. Terminology and test conditions are according to IEC standard IEC60679-1, unless otherwise stated
2. Channel selection by connecting ground (pin 7) to one of the 6 pins in Viking connector VR7/4AB13
The six nominated frequencies to be determined by the purchasing-order

Enclosure drawing:

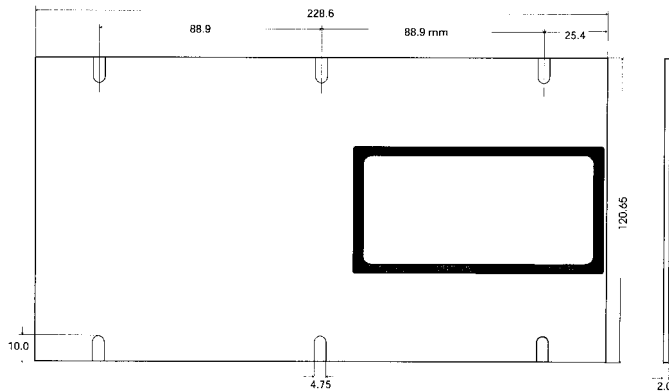


Pin connections:

VR7/4AB13 connector:

Pin #	Symbol	Function
1	CH1	Channel 1 select
2	CH2	Channel 2 select
3	CH3	Channel 3 select
4	CH4	Channel 4 select
5	CH5	Channel 5 select
6	CH6	Channel 6 select
7		Ground

Mounting plate:



SMA Connector: RF Output
BNC Connector : V_s Supply Voltage

Marking: AXMW8596

AXTAL ww/xx & serial number

Environmental conditions:

Vibration :

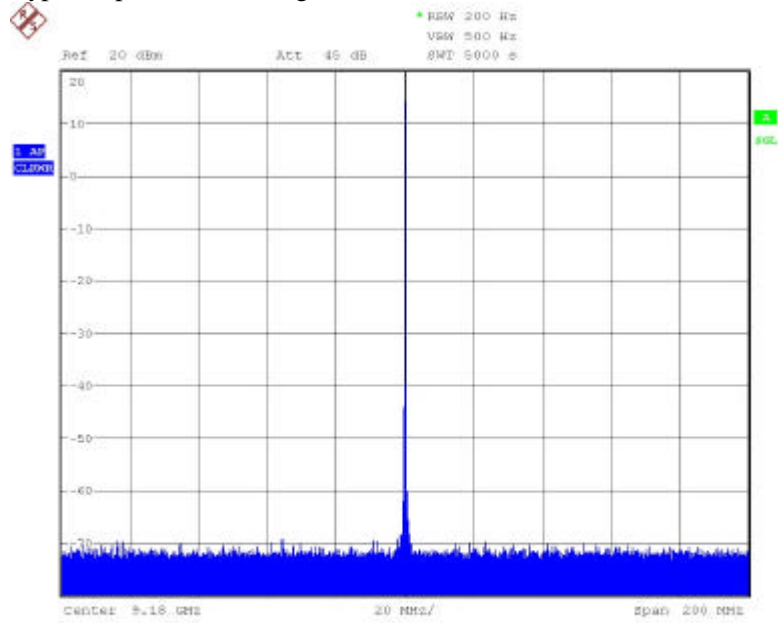
Specification must be met under the vibration conditions of the chart below (Graph 1).



Shock :

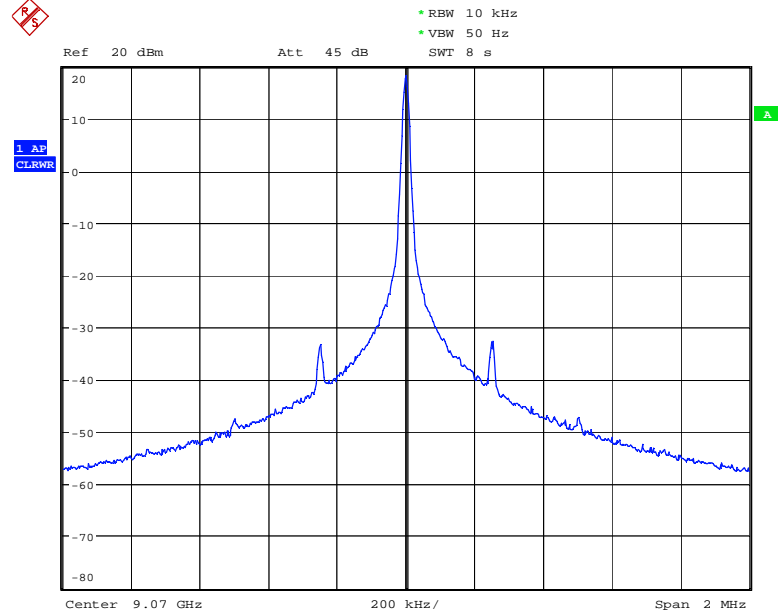
Half Sine 15 g, 11 ms in 3 mutually perpendicular axes. No damage. Shock not applied to short term stability requirements

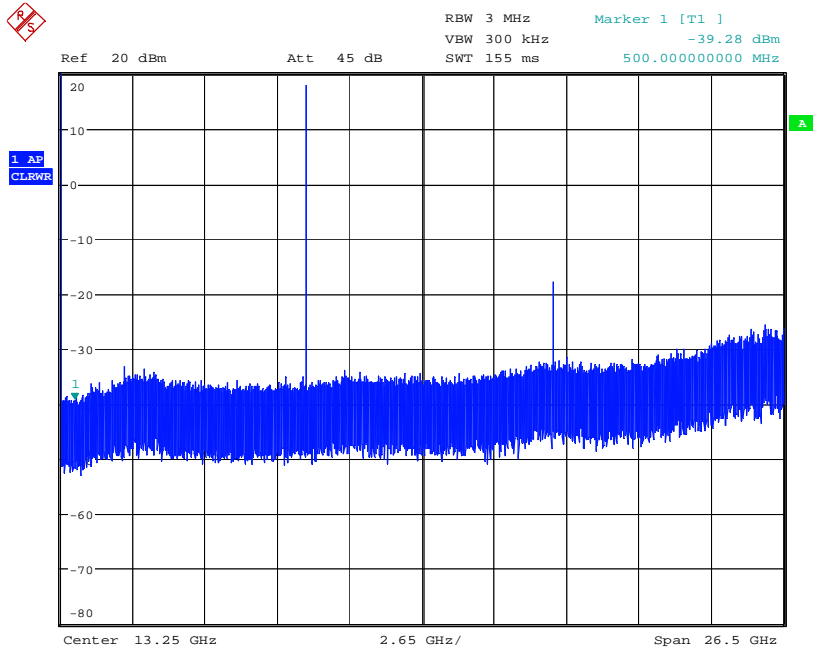
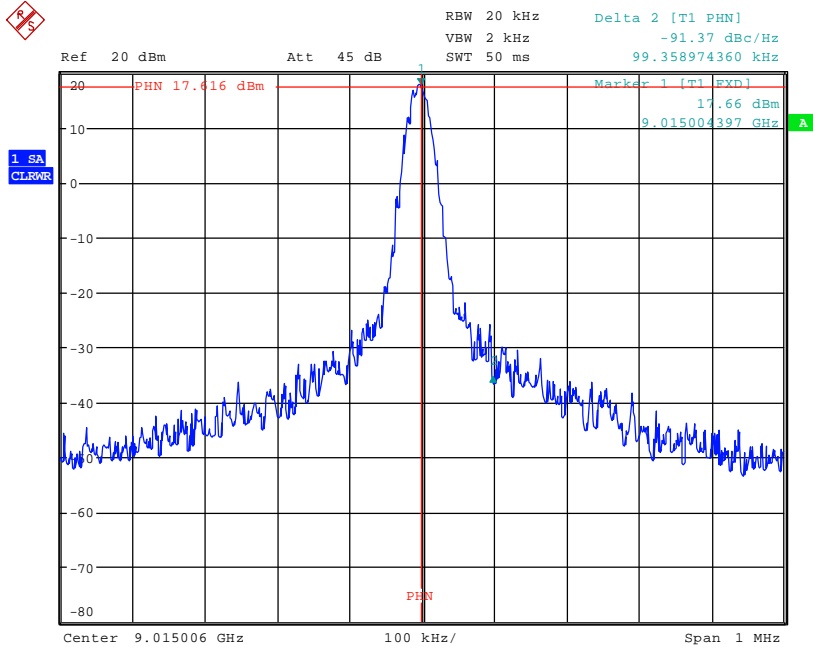
Typical spectrum drawing 1:



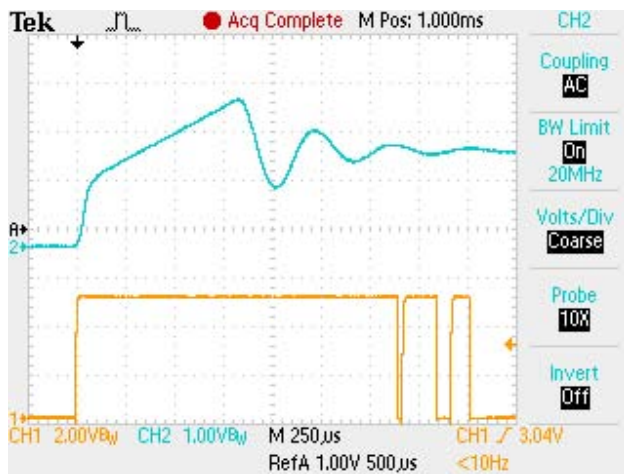
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Date: 15.MAR.2004 15:23:52

Typical spectrum drawing 2:

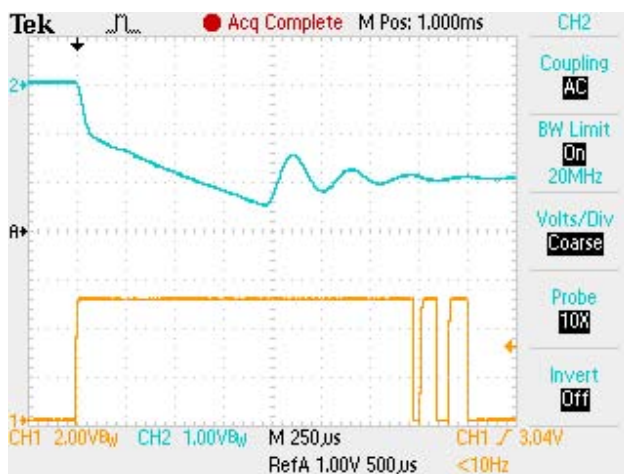




Typical PLL settling time during switch from channel 1 to channel 6:



Typical PLL settling time during switch from channel 6 to channel 1:



Typical PLL settling time during switch from channel 2 to channel 3:

