

Specification	AXPLO10	Issue: 1	Date: 2011-01-29
Oscillator type: Phase-Locked OCXO (PLOCXO)			

Parameter	min.	typ.	max.	Unit	Condition
Nominal output frequency	10.000			MHz	Note 4
RF output					
Signal waveform	Sine wave				
Load R_L	50			Ω	$\pm 10\%$
Amplitude	+7			dBm	Note 2
Harmonics			-25	dBc	
Frequency Stability (free-running)					
frequency tolerance, not locked		± 1.2	± 2	ppm	
over operating temperature range			± 10	ppb	
vs. supply voltage variation			± 2	ppb	$V_S \pm 5\%$
vs. load change			± 2	ppb	$R_L \pm 5\%$
Long term (aging) per year			± 50	ppb	
Input frequency	10.000			MHz	Note 5
Frequency accuracy			± 0.5	ppm	
Input level	0		15	dBm	
Input impedance		50		Ω	
Lock Detect Output		0	1.5	V	Out of lock
	3.5	5		V	Locked
Supply voltage V_S	11.4	12.0	12.6	V	Note 3
Current consumption (warm-up)			450	mA	
Current consumption (steady state)			200	mA	@ +25°C
Operating temperature range	-10		+60	°C	
Storage temperature range	-55		+105	°C	
Enclosure (see drawing) (L x W x H)	54 x 40 x 19			mm	
Flange thickness h		2.0		mm	
Weight			60	gram	
Packing	bulk				
Handling and Testing	In accordance with AXAN-011				www.axtal.com
Processing	In accordance with AXAN-012				www.axtal.com

Notes:

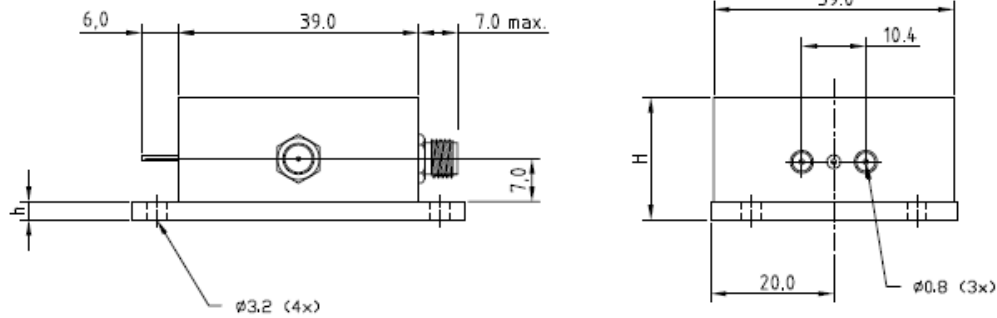
1. Terminology and test conditions are according to IEC standard IEC60679-1, unless otherwise stated
2. Higher output level on request
3. Other supply voltage on request
4. Other Output frequency on request
5. Other Input frequency on request

Ordering Code:

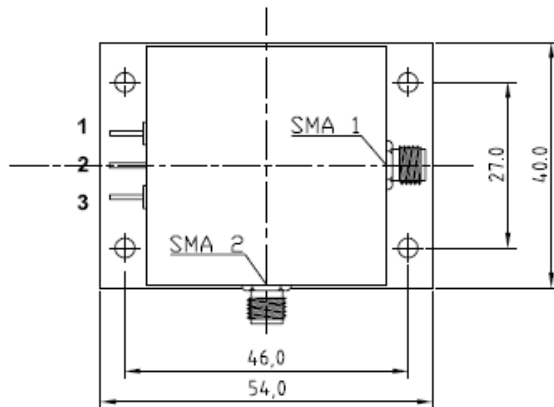
Model (Specification)	Input Reference Frequency [MHz]	Output Frequency [MHz]
AXPLO10	10.000	10.000

Example: AXPLO10-11-10.000-10.000 MHz

Enclosure drawing



Pin#	Symbol	Function
1	LD	Lock Detect
2	GND	Ground
3	V _S	Supply Voltage
SMA1	RF OUT	RF Output
SMA2	RF IN	10 MHz Input



Environmental conditions

Test	IEC 60068 Part ...	IEC 60679-1 clause ...	Test conditions
Sealing tests (if applicable)	2-17	4.6.2	Gross leak: Test Qc, Fine leak: Test Qk
Solderability Resistance to soldering heat	2-20 2-58	4.6.3	Test Ta (235 ± 5)°C Method 1 Test Tb Method 1A, 5s
Shock*	2-27	4.6.8	Test Ea, 3 x per axes 100g, 6 ms half-sine pulse
Vibration, sinusoidal*	2-6	4.6.7	Test Fc, 30 min per axes, 10 Hz - 55 Hz 0,75mm; 55 Hz - 2 kHz, 10g
Endurance tests - ageing - extended aging		4.7.1 4.7.2	30 days @ 85°C, OCXO @ 25°C 1000h, 2000h, 8000h @ 85°C

Revision History

Rev.	Date [dd.mm.yyyy]	Remarks	Author
1	29.01.2011	First issue	BN