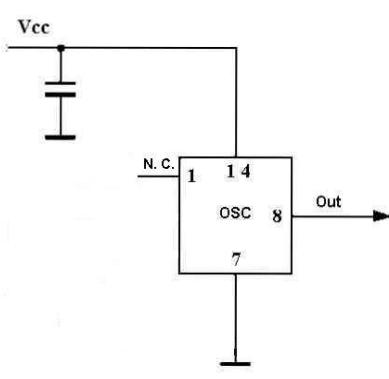


RoHS Compliant, DIP14 package compatible. Code : MXO37/14-A17D3T-24.576						Spec. 1638C-37/14-A17D3T-24.576 Rev. 09.09.2016	
OCXO Specification	Sym.	Condition	Value			Unit	Included in the test data
			Min.	Typ.	Max.		
1.1	Nominal Frequency	f ₀			24.576000	MHz	
1.2	Initial tolerance	(f - f ₀)/f ₀	at +25°C, V _c =V _{c0}	-0.1		0.1	ppm
RF output							
2.1	Wave form			HCMOS			
2.2	High -Voltage	V _H		2.4		V	
2.3	Low - Voltage	V _L			0.4	V	
2.4	Load	R _L C _L		10		kOhm	
2.5	Duty Cycle	τ _S		45	50	55	%
Power supply							
3.1	Input Voltage	V _{CC}		3.15	3.3	3.45	V
3.2	Warm-up current	I _{SR}	V _{CC} =3.3V			150	mA
3.3	Continuous current	I _{CC}	at +25°C, V _{CC} =3.3V		35	50	mA
3.4	Frequency warm-up time	τ _F	to Δf/f=1e-7 at +25°C		90	120	s
Frequency stability							
4.1	vs. temperature	df/dT	ref 25°C			±100	ppb
4.2	vs. supply voltage	df/dV	ref V _{CC} typ.	±3	±5	ppb	
4.3	vs. load	df/dZ	5 % change		±5	ppb	
5.1	SSB Phase noise (static)	L _{PH}	1 Hz			-88	dBc/Hz +, plots
			10 Hz			-118	
			100 Hz			-143	
			1 kHz			-158	
			10 kHz			-163	
			100 kHz			-163	
6.1	Aging	per day	df/day	after 30 days of operation		±1	ppb
		first year	df/year			±0.1	ppm
Maximum ratings, environmental, mechanical conditions.							
Power voltage		-0.5 to 4.0V					
Control voltage		-1.0 to 6.0 V					
Operating temperature range		0°C to +50°C					
Storage temperature range		-60°C to +90°C					
Humidity		Non-condensing 95%					
Mechanical Shock		Per MIL-STD-202, 30G, 11ms					
Vibration		Per MIL-STD-202, 10G to 2000Hz					
Soldering Conditions		Hand solder only – not reflow compatible 260°C 10s (on pins)					
Washing Conditions		Washing with water or alcohol based detergent allowed only with final enough drying stage					

Schematic connections



Physical dimensions

