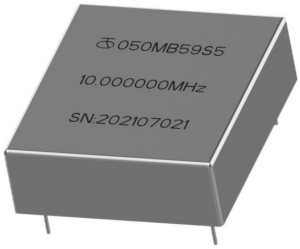
3. Constant temperature control type

3-9.O50M Dual Thermostat Tank Type

O50M



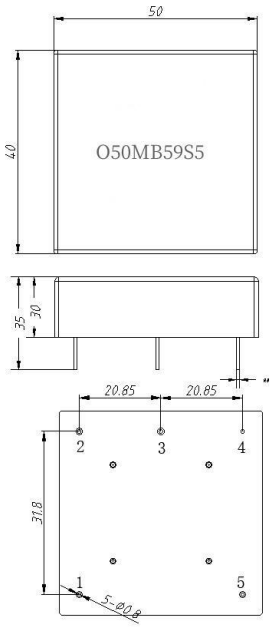
Vibration Resistance Index:☆☆

Vibration type: general products

Features: ultra-low frequency temperature coefficient is suitable for power communication, frequency synthesis, test devices.

Item	Term	Nominal value	Unit
Nominal frequency	25℃, Vcc=12V	10	MHz
Initial deviation	25℃, Vc=Vco	±0.01	ppm
Output			
Waveform	25℃, Vcc=12V	simple harmonic vibration	
Level	25℃, Vcc=12V	8~10	dBm
Load	25℃, Vcc=12V	50	Ohm
Harmonics	25℃, Vcc=5V	-40	dBc
Frequency Control			
Input Impedance	25℃, Vcc=12V	50	kΩ
Slope	25℃, Vcc=12V	≤10	%(positive slope)
Frequency pull range	Vc=0V	-0.35	ppm
	Vc=Vco	0	ppm
	Vc=Vref	0.35	ppm
Power supply			
Input voltage	Vcc	12.0	V
Starting current	Vcc=12V	700	mA
Stable current	25℃, Vcc=12V	250	mA
Activation time	10ppb@25℃	600	sec
Phase noise			
Static unilateral phase noise	10Hz	-120/-125	dBc/Hz
	100Hz	-145/-150	
	1kHz	-155/-160	
	10kHz	-160/-165	
Frequency stability			
Frequency vs Temperature	25℃	0.005	ppm
Frequency vs. supply voltage	25℃	1	ppb
Days aging rate	30 days after energization	0.5	ppb
Annual aging rate		0.05	ppm

Overall dimensions



Pin Definitions

1 Power Supply 2 Vref

3 Voltage Control Input

4 Ground 5 RF Output

Temperature Range		Frequency Temperature Stability	
Code	Description	Code	Description
A	0 ℃ ~50 ℃	17	1×10^{-7}
B	-10 ℃ ~60 ℃	58	5×10^{-8}
C	-20 ℃ -70 ℃	18	1×10^{-8}
D	-40 ℃ -70 ℃	59	5×10^{-9}
E	-40 ℃ -85 ℃	19	1×10^{-9}
F	-55 ℃ -85 ℃	YZ	$Y\times10^{-Z}$

Limit parameters

Supply Voltage	-0.5~13.0V	Humidity	95%
Control Voltage	-1.0~9.0V	vibration shock	GJB360 Related Specifications
Storage Temp. Range	-60 ℃ ~ +90 ℃	master standard	GJB1648-1993