OCO-M36ADS

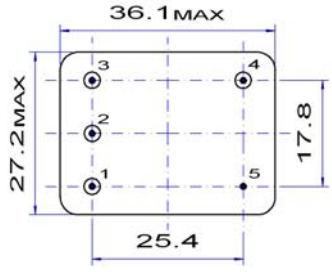
Double oven through hole OCXO
Sine wave

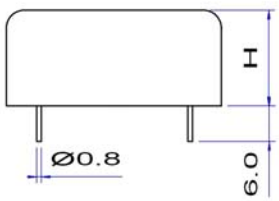
QuartzCom
the communications company

Features

- Applications: GPS, CDMA, 3G, 4G
- High frequency stability vs. temperature (up to ±2 x 10^{-10})
- Low phase noise: < -160 dBc/Hz @ 10 kHz

Parameter	Specification	
Frequency range	5.0000 ~ 10.0000 MHz	
Standard frequencies	5.000, 8.1920 & 10.000 MHz	
Frequency stability vs. operating temperature range	≤ ±5 x 10^{-10}	over -40 ~ +70 °C
	≤ ±3 x 10^{-10}	over -20 ~ +70 °C
	≤ ±2 x 10^{-10}	over 0 ~ +55 °C
vs. supply voltage change	≤ ±1 x 10^{-10}	±5 %
vs. load change	≤ ±1 x 10^{-10}	±5 %
vs. aging after 30 days of operation	≤ ±2 x 10^{-8}	1st year
Short term stability	< 5 x 10^{-12}	Allan deviation per 1 s
Output waveform	sine wave	> 400 mV (rms)
Output load	50 Ω	±5 %
Supply voltage	+12 V	±5 %
Peak current consumption during warm-up time	< 700 mA	
Steady-state current consumption @ +25 °C	< 150 mA	
Warm-up time	< 10 min	< ±5 x 10^{-8} @ +25 °C
Frequency pulling range	> ±0.4 ppm	positive slope
Vcontrol (Vc) via external voltage	0 ~ +5.0 V	
Reference voltage output (Vref)	+5.0 V	
Phase noise @ 10 MHz carrier frequency	< -100 dBc/Hz < -130 dBc/Hz < -148 dBc/Hz < -155 dBc/Hz < -160 dBc/Hz	@ 1 Hz @ 10 Hz @ 100 Hz @ 1 kHz @ 10 kHz
Harmonics	> 30 dBc	
Operating temperature range	0 ~ +55 °C, -20 ~ +70 °C or -40 ~ +70 °C	
Storage temperature range	-55 ~ +85 °C	
Case height /H)	19 mm	

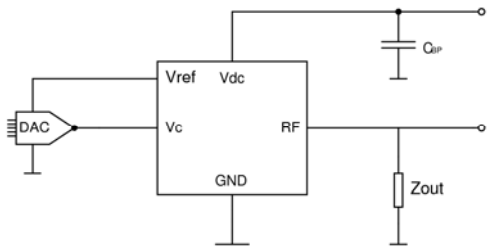




Pin function

# 1	Vc
# 2	Vref
# 3	Vdc
# 4	RF output
# 5	GND

Circuit diagram



C_{BP} = 0.01 mF

Z_{OUT} = 50 Ω

2002/95/EC RoHS compliant

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ISO 9001 BUREAU VERITAS Certification