

Typical Applications

*Digital Base Stations
Test Equipment
GSM*

Features

*Reflow Compatible
Tape & Reel Available
AT-Cut Crystal
FR-4 Base
Surface Mount*



Frequency range

10 MHz – 20 MHz

Standard frequencies

10MHz

Frequency stabilities

Parameter	Code	Frequency stability	Operating temp range
vs. operating temperature range	D257	± 250 ppb	-20....+70°C
	D157	± 150 ppb	-20....+70°C
Parameter	Value		Condition
vs. aging /1 Year	< ± 0.5 ppm		maximum

Frequency tuning

Parameter	Value	Condition
Electrical frequency control (EFC):	± 20 ppm	typical
Voltage range	+ 0.5 V to + 5 V	
Pulling slope	Positive	

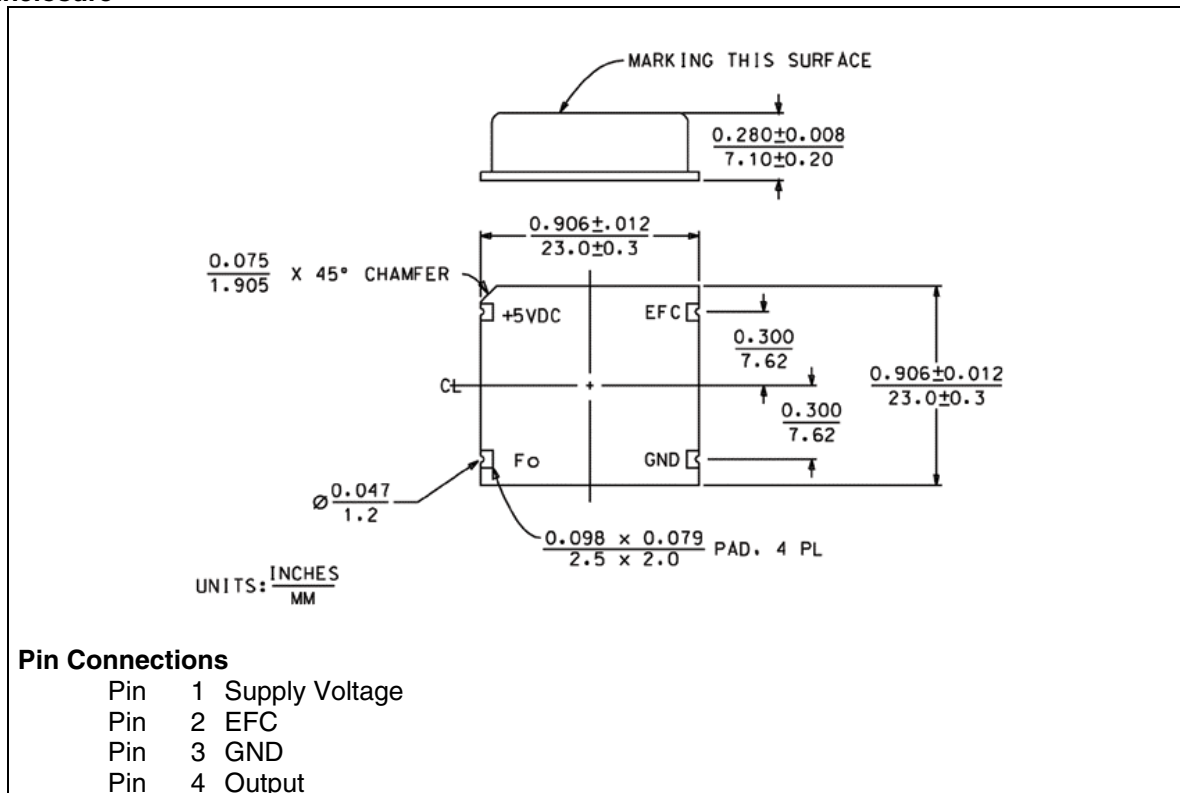
RF output

Parameter	Value	Condition
Signal	HCMOS	
Duty cycle	40 to 60 %	

Supply Voltage

Parameter	Value	Condition
Supply voltage (Vs)	+ 5 V $\pm$ 5 %	
Supply voltage B (Vs B)	+ 3.3 V	
Power consumption steady state	< 0.7 W	@ 25°C
Power consumption during warm up	< 2.5 W	

Enclosure



Additional Parameters

Parameter	Value	Condition
Phase Noise	<- 70 dBc	1Hz Note 1
	<-100 dBc	10Hz
	<-135 dBc	100Hz
	<-150 dBc	1kHz
	<-155 dBc	10kHz
	To within ± 0.1 ppm of stabilized frequency in 1 min. @ 25°C	
Warm-up time		
Weight	4.5 g	typical
Processing	Tech_Note_1	
Packaging	Tech_Note_2	

Notes

- 1 Typical values @ 10 MHz
Can drive TTL, AC MOS and CMOS