A high quality, smd, voltage controlled crystal oscillator manufactured over the frequency range of 1.5MHz to 200MHz. Tight symmetry, wide pulling range, +5V d.c. and +3.3V d.c. supply.

A standard package providing an excellent combination of parameters within a small smd enclosure.

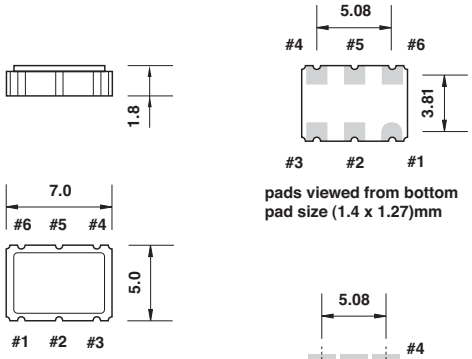
Supplied on tape and reel; 1000 or 3000 pieces per reel.

Frequency stability -vs- temperature:

TEMP. RANGE	COMBINED TOLERANCE	
(-10 +60)°C	±25ppm	±50ppm
(-20 +70)°C	±25ppm	±50ppm
(-40 +85)°C		±50ppm

Tolerance inclusive of calibration tolerance at +25°C, temperature tolerance, load variation and supply voltage variation, first year ageing, vibration and shock

Dimensions(mm)



pad connections:
#1 voltage control
#2 tri-state
#3 ground
#4 output
#5 N/C
#6 V_{DD}

output inhibit:
#2 high: output oscillation
#2 low: output high impedance

Electrical specification:

	5.0Vd.c.		3.3Vd.c.		
	min.	max.	min.	max.	
supply voltage ±10%	4.5	5.5	2.97	3.63	Vd.c.
frequency range	(1.5 ~ 50)MHz		(1.5 ~ 200)MHz		MHz
pulling range	±100	-	±100	-	ppm
control voltage range	0.5	4.5	0.3	3.0	V
supply current (1.5 ~ 20)MHz	-	15	-	10	mA
supply current (20 ~ 50)MHz	-	30	-	20	mA
supply current (50 ~ 80)MHz	-	35	-	30	mA
supply current (80 ~ 160)MHz	-	-	-	40	mA
supply current (160 ~ 200)MHz	-	-	-	50	mA
CMOS o/p high	90% V_{DD}		90% V_{DD}		V
CMOS o/p low		10% V_{DD}		10% V_{DD}	V
t_r 1.5MHz ~ 20MHz	-	4	-	5	nano sec.
t_r 20MHz ~ 50MHz	-	3	-	4	nano sec.
t_r 50MHz ~ 80MHz		2		3	nano sec.
t_r 80MHz ~ 200MHz		-		2	nano sec.
start up time		5		5	milli sec.
tri-state: active o/p	0.8V_{DD}	-	0.6V_{DD}	-	V
tri-state: high impedance o/p	-	0.16V_{DD}	-	0.15V_{DD}	V
absolute clock period jitter	-	40	-	40	pico sec.
linearity	-	10	-	10	%
modulation bandwidth (1.5 ~ 55)MHz	20	-	20	-	kHz
modulation bandwidth (55 ~ 80)MHz	30	-	30	-	kHz
modulation bandwidth (80 ~ 200)MHz	45	-	45	-	kHz
input impedance (1.5 ~ 100)MHz)	2000	-	2000	-	kΩ
input impedance (100 ~ 200)MHz)	50	-	50	-	kΩ
ageing	-	±3	-	±3	ppm
storage temperature range	(-55 +125)°C				°C

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