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The World's Leading Manufacturer of High Reliability Hybrid Crystal Oscillators

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Model: QT3

Type: Transistor Outline Crystal Oscillator

Show Dimensions >>



Pin Configuration

VCC	GND	OUT	CASE	ITP
8	4	5	4	2, 6, 7

Equivalent Military Designation:

M55310/10 = QT3T, /13 = QT3C

Freq. Designation >>

Frequency Options

	400 Hz to 64 MHz
TTL CMOS **	0.01 Hz to 15 MHz (5 to 15 V)
HCMOS/ACMOS	0.03 Hz to 60 MHz `
** Indicate supply volt	age : QT3C9M-16.000 MHZ, 15

Frequency Stability vs Temperature

Code	± %	± PPM	Temp
1	.01	100	0°C to +70°C
4	.005	50	0°C to +70°C
3**	.0005	5	0°C to +50°C
5	.0025	25	-20°C to +70°C
6	.005	50	-55°C to +105°C
9	.005	50	-55°C to +125°C
10	.01	100	-55°C to +125°C
11	.005	50	-40°C to +85°C
12	.01	100	-40°C to +85°C

^{**} Requires external tuning capacitors. Consult the factory for pin connections. For frequencies above 30 MHz, consult the factory. For frequency stability vs. temperature options not listed herein, request a custom part number.

	Our	out Logic
	-	l

T	TTL	
C	CMOS	
HC	High Speed CMOS	
AC	Advanced CMOS	
L	Low Voltage, 3.3 V	
Z	Special CMOS*	
D = Tristate Output		
(add "D" as a suffix to the above listed ontions)		

Phase Noise

Electrical Specifications

ITEM	TTL	смоѕ	HC/ACMOS***
SUPPLY VOLTAGE	5 V ± 10%	5.0 TO 15.0 V	5 V ± 10%**
SUPPLY CURRENT (Typical)	66 to 80 MHz: 60 mA 50 to 66 MHz: 40 mA 27 to 50 MHz: 25 mA 6.5 to 27 MHz: 12 mA .01 Hz to 6.5 MHz: 20 mA	2 to 4 mA @ 5V and 6 MHz Special supply voltage or current available. Ultra low current for battery operation also available.	HC = 6 mA @ 10 MHz AC = 20 mA @ 35 MHz Special supply voltage or current available. Ultra low current for battery operation also available.
LOAD	> 30 MHz: 6 TTL < 30 MHz: 10 TTL	Typical 10 k ohm shunted with 15 pf. capacitor	Typical ± 2 mA drive. Can drive 1 TTL load.
SYMMETRY*	≥ 8 MHz: 60/40% < 8 MHz: 45/55%	4 to 15 MHz: 60/40% < 4 MHz: 45/55%	≥ 10 MHz: 60/40% < 10 MHz: 45/55%

^{*} Optional symmetry selections are 45/55 or 47.5/52.5 Custom symmetry is also available upon request.
** Parts are available with supply range of 2.5 to 6 Volts.
*** Low voltage logic avaliable, $Vcc = 3.3 \text{ V} \pm 10\%$, Current = 12 mA @ 40 MHz, Drive capability = 15 pf

Factory Options

^{*} Output logic can drive up to 200 pF load with typical ns rise & fall time (tr, tf).

