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

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Model: QT18

Type: Crystal Oscillator

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Pin Configuration

VCC	GND	OUT	CASE	ITP
14	7	8	7	4, 11

Equivalent Military Designation:

N/A

Freq. Designation >>

Frequency Options

1	0.0		
CMOS **	0.01 Hz to 15 MHz (5 to 15 V)		
HCMOS/ACMOS	0.01 Hz to 160 MHz		
ECL/PECL	1 MHz to 200 MHz		
** Indicate supply voltage: QT18C9M-10.000 MHz, 15			
\/	_		

0.01 Hz to 160 MHz

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.

TTI

	Output Logic	
	Ţ	TTL
	C	CMOS
Phase Noise	нс	High Speed
1 11030 110130		I Λ -l

Speed CMOS Advanced CMOS Low Voltage, 3.3 V 10 K ECL 10 KH ECL 100 K/300 K ECL

+5 V ECL (PECL) Special CMOS*

D = Tristate Output

(add "D" as a suffix to the above listed options)

ns rise & fall time (tr, tf).

Electrical Specifications

Factory Options

ITEM	TTL	CMOS	HC/ACMOS***	ECL
SUPPLY VOLTAGE	5 V ± 10%	5.0 TO 15.0 V	5 V ± 10%**	-5.2 V std. for 10 K/10 KH output -4.5 V std. for 100 K/300 K output
SUPPLY CURRENT (Typical)	66 to 160 MHz: 80 mA 50 to 66 MHz: 40 mA 27 to 50 MHz: 25 mA 6.5 to 27 MHz: 12 mA .01Hz to 6.5 MHz: 20 mA	2 to 4 mA @ 5 V 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.	35 mA (typ) for 10 K
LOAD	30 to 72 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.	Standard ECL, designed for 20 ECL Loads.
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%	60/40%

^{*} Output logic can drive up to 200 pF load with typical

^{*} 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 V ± 10%, Current = 12 mA @ 40 MHz, Drive capability = 15 pf

