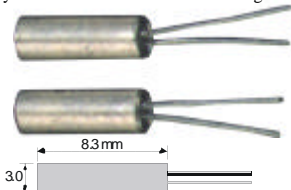


CRYSTALS

TUNING FORK WATCH CRYSTAL

DT-38 and DT-26 are TUNING FORK CRYSTALS which provide standard frequency 32.768KHz for watch and timing clock application.

Part Number
CRY32.768KHZ
CRY38.000KHZ
CRY75.000KHZ



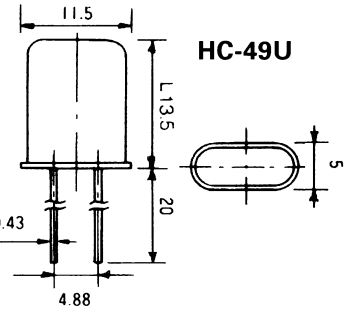
QUARTZ CRYSTALS

Metal can housed wire extended crystal which are cut and tested at the stated load capacitance, for use in general industrial and microprocessor timing applications, all type are parallel resonant.

Frequency Range: 1.8432 to 200.000 MHz
 Frequency Stability @25°C: ? ? ? ppm typ.
 Temperature Stability: ? 30 ppm -10°C to 70°C
 Drive Level: 1mW Max
 Load Capacitance: 12 to 32 pf
 Shunt Capacitance: 7 pf Max.
 Aging: ? ? ? ppm / year



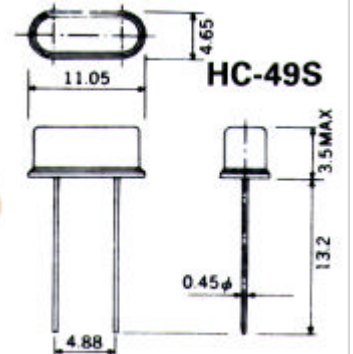
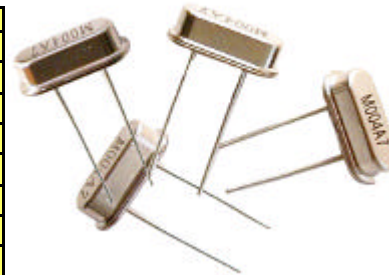
HC-49U : STYLE



CRY1.000MHZ	CRY3.9936MHZ	CRY6.000MHZ	CRY8.86723MHZ	CRY12.288MHZ	CRY18.432MHZ
CRY1.8432MHZ	CRY4.000MHZ	CRY6.144MHZ	CRY9.216MHZ	CRY13.875MHZ	CRY19.661MHZ
CRY2.000MHZ	CRY4.032MHZ	CRY6.475MHZ	CRY9.600MHZ	CRY14.318MHZ	CRY20.00MHZ
CRY2.4567MHZ	CRY4.194304MHZ	CRY6.5336MHZ	CRY9.8304MHZ	CRY14.745MHZ	CRY20.48MHZ
CRY2.4698MHZ	CRY4.433619MHZ	CRY6.5536MHZ	CRY10.00MHZ	CRY14.7456MHZ	CRY24.00MHZ
CRY3.2768MHZ	CRY4.608MHZ	CRY7.159MHZ	CRY10.245MHZ	CRY15.000MHZ	CRY24.576MHZ
CRY3.546894MHZ	CRY4.9152MHZ	CRY7.3728MHZ	CRY11.00MHZ	CRY16.00MHZ	CRY27.145MHZ
CRY3.579545MHZ	CRY5.000MHZ	CRY8.0000MHZ	CRY11.0592MHZ	CRY16.384MHZ	CRY29.4912MHZ
CRY3.6864MHZ	CRY5.0688MHZ	CRY8.192MHZ	CRY12.0MHZ	CRY17.734MHZ	CRY48.000MHZ

QUARTZ CRYSTALS: HC-49S SERIES "LOW PROFILE"

CS3.579545MHZ	CS7.3728MHZ	CS.16.00MHZ
CS3.6864MHZ	CS8.00MHZ	CS16.384MHZ
CS4.00MHZ	CS10.00MHZ	CS19.6608MHZ
CS4.194304MHZ	CS11.0592MHZ	CS20.00MHZ
CS4.433619MHZ	CS12.00MHZ	CS21.4772MHZ
CS4.9152MHZ	CS12.288MHZ	CS24.00MHZ
CS5.00MHZ	CS14.318MHZ	CS24.576MHZ
CS6.00MHZ	CS14.7456MHZ	CS27.00MHZ
CS6.144MHZ	CS15.00MHZ	



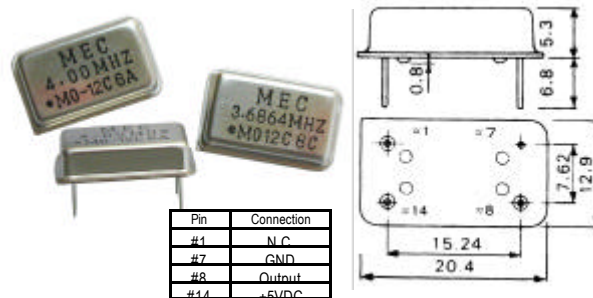
OSCILLATOR

OSCILLATOR: HO-11C SERIES

Hermetically sealed all metal can housed wire extended quartz crystal oscillator. The output are TTL compatible and will drive up to 10 TTL load. CMOS load can also be driven if a pull-up resistor of 2.2 K ? Is connected between the output and positive supply. Typical application is to provide timing for the microprocessor.

Frequency Range: 250kHz to 80,000MHz
 Frequency Stability @25°C: ? ? 00 ppm typ.
 Operating Temperature Range: 0°C to 70°C
 Output Drive Level: 1 to 10 TTL Gate.
 Supply Current Max: 30mA 250kHz to 23MHz
 40mA 24MHz to 80MHz

Output: Logic "O" Level
 Logic "1" Level



OSC1.00MHZ	OSC5.000MHZ	OSC12.000MHZ
OSC1.8432MHZ	OSC5.0688MHZ	OSC14.318MHZ
OSC2.0480MHZ	OSC6.000MHZ	OSC16.000MHZ
OSC2.4576MHZ	OSC6.144MHZ	OSC18.432MHZ
OSC3.6864MHZ	OSC7.3728MHZ	OSC20.000MHZ
OSC4.000MHZ	OSC8.000MHZ	OSC24.000MHZ
OSC4.9152MHZ	OSC10.000MHZ	OSC30.000MHZ

CERAMIC RESONATOR

Ceramics resonator designed to use in low cost oscillator circuits. Piezo-electric ceramic construction for use in cost effective high reliability oscillator. These device are optimized for use in RF circuit..

Frequency Range: 2.0 - 8.00 MHz
 Frequency Accuracy: ? ? ? ? at 25°C
 Operation Temperature : -20°C to 80°C
 Aging (for 10 Years): ? 0.5%
 Resonant Resistance: 100 ? Max
 Capacitance: 33 pF



CSA2.00MHZ	CSA4.00MHZ	CSA4.91MHZ	CSA6.00MHZ
CSA3.58MHZ	CSA4.19MHZ	CSA5.00MHZ	CSA8.00MHZ

CSB450KHZ	Frequency Range: 190 - 1250 KHz
CSB455KHZ	Frequency Accuracy: ? ? ? at 25°C
CSB456KHZ	Operation Temperature : -20°C to 80°C
CSB480KHZ	Aging (for 10 Years): ? 0.5%
CSB500KHZ	Resonant Resistance: 20 ? Max
	Capacitance: 100 pF



CERAMIC FILTER

Miniature resin molded ceramic filters, high selectivity type for communication use.

Part Number	Center Frequency	Insertion Loss	6dB Bandwidth
CFW455D	455±1.5KHz	4dB	±10KHz
CFW455E	455±1.5KHz	6dB	±7.5KHz
CFW455I	455±1.0KHz	6dB	±2KHz

