



CONNOR-WINFIELD CORPORATION

AURORA, IL. 60505
 PHONE (630) 851-4722
 FAX (630) 851-5040

LOW PROFILE CRYSTAL UNIT

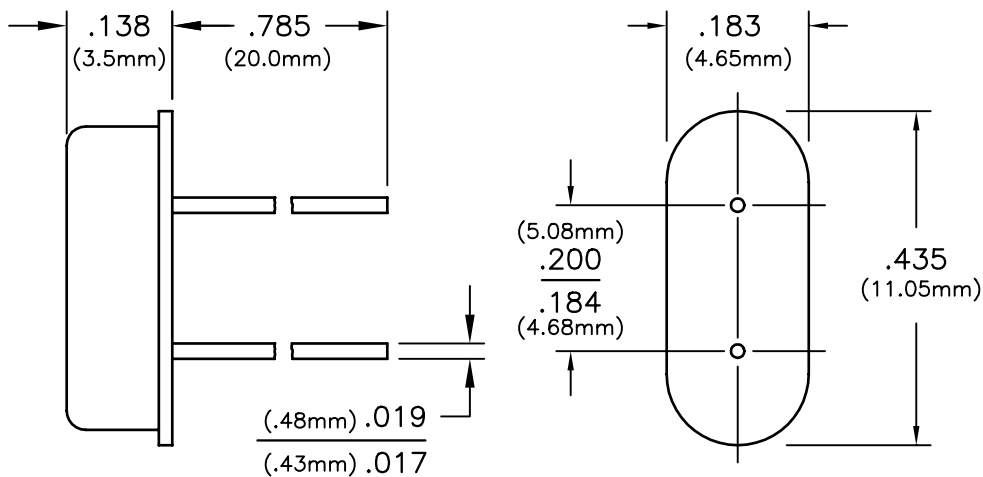
SPECIFICATIONS	HC-49/4H
Frequency Range	3.2MHz to 25.31222MHz (Fund) , 27MHz to 70MHz (3rd OT)
Frequency Tolerance (at 25°C)	±30ppm
Temperature Stability	±50ppm
Operating Temperature Range	-10°C to +60°C
Storage Temperature Range	-40°C to +90°C
Shunt Capacitance (Co)	7pF Maximum
Equivalent Series Resistance	See Table 1
Load Capacitance (CL)	See Table 1
Drive Level	0.1mW Typical
Aging (First Year)	±5ppm/year Maximum
Shock Resistance (Note 1)	±5ppm Maximum
Vibration Resistance (Note 2)	±5ppm Maximum
Insulation Resistance	500M Ohm Minimum at 100 ±15Vdc
Leakage	0.01ppm atm.cc/sec Maximum

Note 1 (Shock Test Standard): 3 times from a height of 75 cm, onto a hard wooden board.

Note 2 (Vibration Test Standard): Frequency: 10 to 500 Hz
 Amplitude: 1.5mm P-P cycle, 1 minute
 Period: 120 minutes in each direction

TABLE 1 STANDARD FREQUENCIES CL, ESR

Frequency Range	Mode of Osc.	Load Cap.	E.S.R. (max.)	Frequency Range	Mode of Osc.	Load Cap.	E.S.R. (max.)
3.2MHz to 3.499MHz	Fund.	16pF	200 Ohms	7.0MHz to 7.999MHz	Fund.	16pF	50 Ohms
3.5MHz to 3.999MHz	Fund.	16pF	140 Ohms	8.0MHz to 10.999MHz	Fund.	16pF	45 Ohms
4.0MHz to 4.399MHz	Fund.	16pF	120 Ohms	11.0MHz to 11.999MHz	Fund.	16pF	40 Ohms
4.4MHz to 4.899MHz	Fund.	16pF	100 Ohms	12.0MHz to 14.999MHz	Fund.	16pF	35 Ohms
4.9MHz to 5.999MHz	Fund.	16pF	80 Ohms	15.0MHz to 36.000MHz	Fund.	16pF	30 Ohms
6.0MHz to 6.999MHz	Fund.	16pF	60 Ohms	27.0MHz to 70.000MHz	3rd O/T Series	Series	100 Ohms



Specifications subject to change without notice

BULLETIN #: XT010
 PAGE 1 OF 1

REV: 02
 DATE: 4/13/95

ISSUED BY: _____