

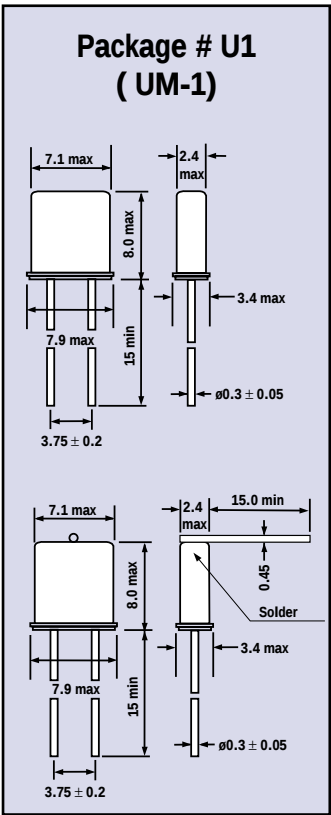
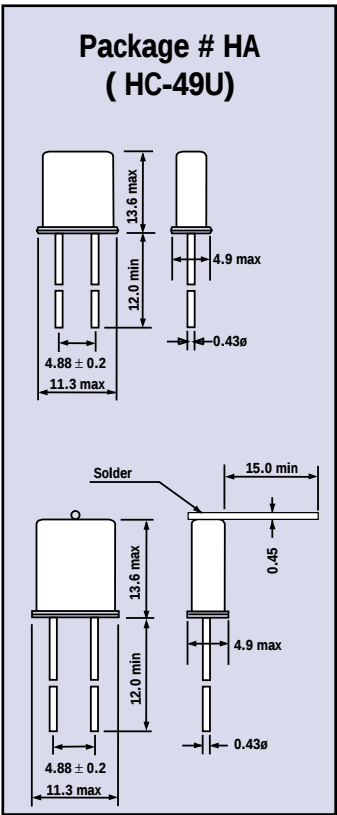
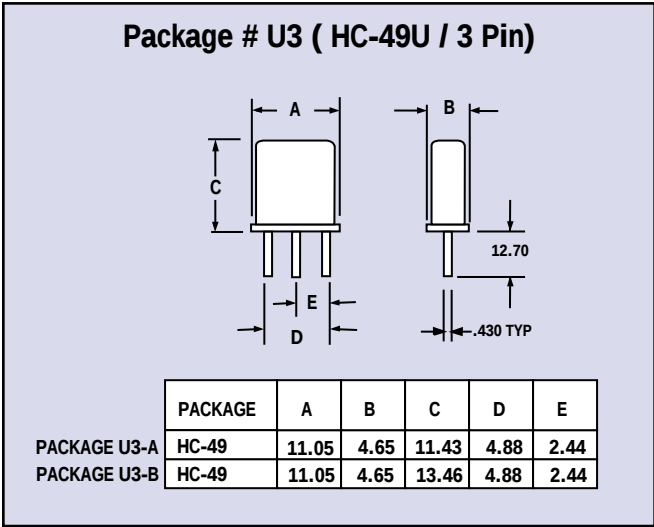
CRYSTAL UNITS

PULL TYPE CRYSTALS

In many applications there are requirements to move crystals off their center frequency. This is done by measuring frequencies from one load capacity to another. The pulling of the frequency is controlled by the motional capacitance or C1. Applications such as voltage controlled crystal oscillators, temperature compensated crystal oscillators, two-way radios and digital transmission systems all require pull type crystals.

Typical Electrical Characteristics

Frequency Range:1.8432 MHz to 100.0 MHz
Calibration Tolerance @ 25°c: ± 15 ppm
Operating Temp Range: -20°c to +70°c
Calibration Tolerance over Temp Range: ± 20 ppm
Aging: ± 2 ppm/year
Drive Level: 100 µW



STANDARD PULL TYPE CRYSTALS									
Nominal Frequencies MHz	PDI Package Number	Capacity Range	Pull Range	PDI Part Number	Nominal Frequencies MHz	PDI Package Number	Capacity Range	Pull Range	PDI Part Number
3.579545	1	series-18 pF	900Hz	8512	11.000000	1	series-32 pF	1000Hz	8515
4.000000	1	series-32 pF	1000Hz	8513	12.800000	1	15 pF-45pF	315ppm	8507
5.120000	1	15 pF-45 pF	360ppm	8500	14.318180	1	series-18 pF	6000Hz	8516
6.176000	1	11.6 pF-37 pF	370ppm	7266	14.400000	1	series-32 pF	360ppm	7570
7.776000	1	series-12 pF	640ppm	7006	16.800000	2	series-20 pF	250ppm	8277
7.948800	1	series-12 pF	590ppm	7160	18.432000	13B	6.2 pF-13 pF	±200ppm	8035
8.000000	1	series-32 pF	1000Hz	8514	20.480000	13A	15 pF-45 pF	360ppm	8252
8.192000	1	11.7 pF-34 pF	370ppm	7682	27.000000	13B	6.2 pF-13 pF	±200ppm	8517
9.048300	13B	series-32 pF	225ppm	7023	44.736000	2	7 pF-26 pF	340ppm	8518
10.240000	13A	15 pF-45 pF	315ppm	8431	52.195000	2	7 pF-26 pF	340ppm	8519