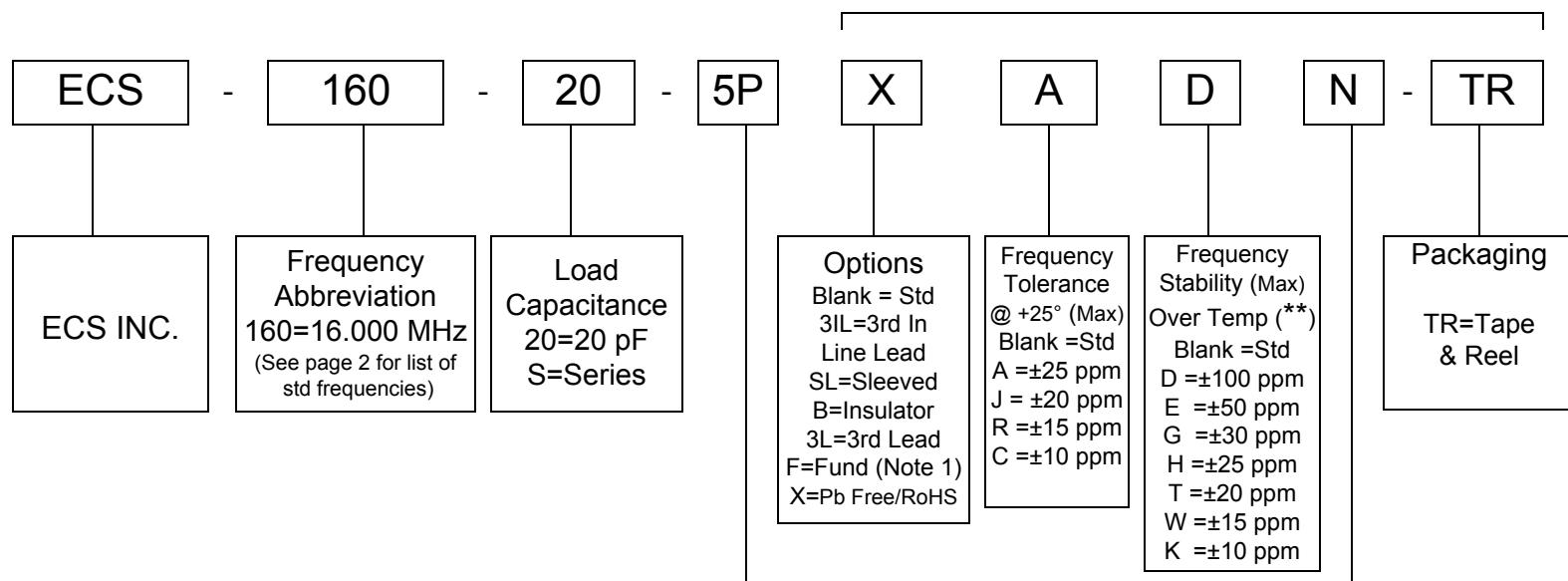




### Custom/Value Added Options



| (Package Suffix) Model Types |                     |                 |                 |               |
|------------------------------|---------------------|-----------------|-----------------|---------------|
| (1X) HC-49UX                 | (8X) ECS-3x8X       | (19A) ECX-19A   | (25) UM-4       | (35) CSM-9    |
| (3X) CSM-3X                  | (9X) ECS-3x9X       | (20A) CSM-8A    | (26) ECX-26*    | (36) ECX-2236 |
| (4X) HC-49USX 3.5H           | (10X) ECS-3x10X     | (20BM) CSM-8M   | (27) ECX-15     | (37) ECX-1637 |
| (4LX) HC-49USX 2.5H          | (11) ECX-205*       | (20BQ) CSM-8Q   | (28A) CSM-4A    | (38) ECX-71   |
| (4VX) HC-49USSX              | (12) ECX-12         | (21) UM-5       | (30) ECX-53     | (39) ECX-39   |
| (5PX) CSM-7X 4.3H            | (13X) ECS-2x6X      | (22) UM-1       | (30B) ECX-53B   | (42) ECX-42   |
| (5PLX) CSM-7X 3.2H           | (13FLX) ECS-2x6-FLX | (22SMJ)ECX-UM-1 | (30BQ) ECX-53BQ | (46X) HC-46X  |
| (5PV) CSM-7SSX 2.6H          | (14X) ECS-1x5X      | (23A) ECX-64A   | (32) ECX-31     |               |
| (5G3X) CSM-7X-3L             | (14FLX) ECS-1x5-FLX | (23B) ECX-64    | (33) ECX-32     |               |
| (6) ECX-206*                 | (17X) ECX-306X      | (23C) ECX-64C   | (33Q) ECX-33Q   |               |
| (7SX) ECX-3SX                | (18) CSM-12         | (24) ECX-3TA*   | (34B) ECX-31B   |               |

Blank =Std  
L = -10 ~+70°C  
M = -20 ~+70°C  
N = -40 ~ +85°C  
P = -40 ~ +105°C  
S = -40 ~ +125°C  
U = -55 ~ +125°C

**Note 1: Crystals over 24.000 MHz will be 3rd overtone (if available on data sheet) unless fundamental mode is requested. An "F" suffix after the package type indicates a fundamental mode i.e. ECS-300-S-1-F would be a 30.000 MHz Fundamental mode crystal.**

## Standard Frequency Abbreviations

| CODE  | FREQUENCY<br>MHz |
|-------|------------------|
| 10    | 1.000000         |
| 18    | 1.843200         |
| 20    | 2.000000         |
| 20.48 | 2.048000         |
| 24    | 2.457600         |
| 25    | 2.500000         |
| 25.6  | 2.560000         |
| 29    | 2.9491200        |
| 30    | 3.000000         |
| 32    | 3.276800         |
| 35    | 3.579545         |
| 36    | 3.686400         |
| 36.4  | 3.640000         |
| 37    | 3.700000         |
| 39    | 3.932160         |
| 40    | 4.000000         |
| 40.3  | 4.032000         |
| 41    | 4.096000         |
| 42    | 4.194304         |
| 44    | 4.433618         |
| 49    | 4.915200         |
| 50    | 5.000000         |
| 51    | 5.068000         |
| 52    | 5.185000         |
| 60    | 6.000000         |
| 61    | 6.144000         |
| 73    | 7.372800         |
| 76.8  | 7.680000         |

| CODE    | FREQUENCY<br>MHz |
|---------|------------------|
| 80      | 8.000000         |
| 81.92   | 8.192000         |
| 85      | 8.500000         |
| 90      | 9.000000         |
| 92.1    | 9.216000         |
| 95.4    | 9.545000         |
| 98.3    | 9.830400         |
| 100     | 10.000000        |
| 107.3   | 10.738635        |
| 110     | 11.000000        |
| 110.4   | 11.046000        |
| 110.5   | 11.059200        |
| 112.2   | 11.228000        |
| 115.2   | 11.520000        |
| 119.8   | 11.981350        |
| 120     | 12.000000        |
| 120.003 | 12.000393        |
| 121     | 12.096000        |
| 122.8   | 12.288000        |
| 129.6   | 12.960000        |
| 135     | 13.516800        |
| 143     | 14.318180        |
| 146     | 14.690000        |
| 147.4   | 14.745600        |
| 150     | 15.000000        |
| 153.6   | 15.360000        |
| 160     | 16.000000        |
| 160.003 | 16.000312        |

| CODE    | FREQUENCY<br>MHz |
|---------|------------------|
| 162.5   | 16.257000        |
| 169.344 | 16.934400        |
| 177.3   | 17.734475        |
| 180     | 18.000000        |
| 184     | 18.432000        |
| 196.6   | 19.660800        |
| 200     | 20.000000        |
| 214.7   | 21.477270        |
| 221     | 22.118400        |
| 240     | 24.000000        |
| 240.001 | 24.000140        |
| 245.7   | 24.576000        |
| 250     | 25.000000        |
| 260     | 26.000000        |
| 270     | 27.000000        |
| 300     | 30.000000        |
| 320     | 32.000000        |
| 330     | 33.000000        |
| 338     | 33.868800        |
| 352.5   | 35.251200        |
| 360     | 36.000000        |
| 380.005 | 38.000530        |
| 400     | 40.000000        |
| 403.2   | 40.320000        |
| 480     | 48.000000        |
| 500     | 50.000000        |
| 600     | 60.000000        |
| 800     | 80.000000        |

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