

REQUIREMENTS:

Dimensions, marking, and configuration: See figure 1.

Frequency range: 0.8 MHz to 20 MHz, inclusive.

Capacitance, shunt: 7 pF, maximum.

Frequency tolerances:

Operating temperature range: ± 20 parts per million (ppm).

Room temperature: ± 80 ppm.

Frequency stability: ± 5 ppm.

Equivalent resistance: See table I.

Mode of oscillation: Fundamental.

Reference temperature: $+85^{\circ}\text{C} \pm 1^{\circ}\text{C}$

Temperature ranges:

Operable: -55°C to $+80^{\circ}\text{C}$, inclusive.

Operating (controlled): $+80^{\circ}\text{C}$ to $+90^{\circ}\text{C}$, inclusive.

Rated drive level: 1.0 mW, maximum.

Resonance: Series.

Shock (specified pulse):

Frequency change permitted: ± 5 ppm.

Equivalent resistance change permitted: Below 2MHz: ± 15 percent
2.0 MHz and above: ± 10 percent

Vibration: Method 201 of MIL-STD-202.

Frequency change permitted: ± 5 ppm.

Equivalent resistance change permitted: Below 2MHz: ± 15 percent
2.0 MHz and above: ± 10 percent

Thermal shock:

Frequency change permitted: ± 5 ppm.

Equivalent resistance change permitted: Below 2MHz: ± 15 percent
2.0 MHz and above: ± 10 percent

Aging:

Frequency change permitted: ± 5 ppm.

TABLE I. Equivalent resistance.

Frequency range, inclusive	Maximum resistance
<u>MHz</u>	<u>Ohms</u>
0.80 to 0.85	520
0.85+ to 0.90	480
0.90+ to 1.00	440
1.00+ to 1.12	400
1.12+ to 1.25	380
1.25+ to 1.37	340
1.37+ to 1.50	300
1.50+ to 1.62	270
1.62+ to 1.75	250
1.75+ to 1.87	220
1.87+ to 2.00	180
2.00+ to 2.12	160
2.12+ to 2.25	150
2.25+ to 2.60	120
2.60+ to 3.00	90
3.00+ to 3.40	70
3.40+ to 3.75	52
3.75+ to 4.00	45
4.00+ to 5.00	37
5.00+ to 7.00	25
7.00+ to 10.00	20
10.00+ to 15.00	18
15.00+ to 20.00	15

Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Custodians:

Army - CR
 Navy - EC
 Air Force - 11
 DLA - CC

Preparing activity:

Army - CR

Agent:

DLA - CC

Review activities:

Army - AR, MI,
 Navy - AS, MC, SH
 Air Force - 19

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