

MIL-PRF-3098/77D

REQUIREMENTS:

Dimensions, marking, and configuration: See figure 1.

Frequency range: 2.0 MHz to 10.0 MHz, inclusive.

Mode of oscillation: Fundamental.

Rated drive level: 1.0 mW, maximum.

Operating temperature range (noncontrolled): -55°C to +90°C, inclusive.

Frequency tolerance: ± 50 parts per million (ppm).

Equivalent resistance: See table I.

Antiresonance, load capacitance: 25.0 pF ± 0.5 pF.

Shock (specified pulse):

Frequency change permitted: ± 5 ppm.

Equivalent resistance change permitted: ± 10 percent.

Vibration: Method 201 of MIL-STD-202.

Frequency change permitted: ± 5 ppm.

Equivalent resistance change permitted: ± 10 percent.

TABLE I. Equivalent resistance.

Frequency range, inclusive	Maximum resistance
<u>MHz</u>	<u>Ohms</u>
2.00 to 2.10	550
2.10+ to 2.225	500
2.225+ to 2.30	450
2.30+ to 2.45	400
2.45+ to 2.60	350
2.60+ to 2.80	300
2.80+ to 3.05	250
3.05+ to 3.40	200
3.40+ to 3.60	180
3.60+ to 3.90	150
3.90+ to 4.25	130
4.25+ to 4.65	100
4.65+ to 5.10	75
5.10+ to 6.50	50
6.50+ to 7.50	37
7.50+ to 9.00	25
9.00+ to 10.00	20

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Thermal shock:

Frequency change permitted: ± 5 ppm.

Equivalent resistance change permitted: ± 10 percent.

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 - 85

Review activities:

Army - AR, MI

Navy - AS, MC, SH

Air Force - 17, 19

Preparing activity:

Army - CR

Agent:

DLA - CC

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