

1. Specification

Frequency range:	16.0 ... 38.88 MHz
Standard frequencies :	16.384; 19.44; 24.704; 34.704; 38.88 MHz
Nominal frequency tolerance, $U_C = 1.25 \text{ V}$, $T = 25 \pm 3 \text{ }^\circ\text{C}$:	$< \pm 10 \text{ ppm}$
Frequency stability in the temperature range -20°C to $+70^\circ\text{C}$: vs. supply voltage changes $U_B \pm 5 \%$: vs. load changes $\pm 10 \%$:	$< \pm 10 \text{ ppm}$ $< \pm 6 \text{ ppm}$ $< \pm 2 \text{ ppm}$
Aging:	$\pm 5 \text{ ppm}$ / first year $\pm 2 \text{ ppm}$ / following years
Frequency control range:	$\geq \pm 100 \text{ ppm}$
Control voltage U_C :	0.0 ... 2.5 V
Transfer function / Linearity:	positive / $< 15 \%$
Supply voltage U_B :	$3.3 \text{ V} \pm 10 \%$
Current consumption with 1 kOhm // 15 pF load :	$\leq 15 \text{ mA}$
Output voltage : load : duty cycle : rise time, fall time with 1 kOhm // 15 pF load :	LQVMOS; Low < 0.8 ; High $> 2.0 \text{ V}$ 1 kOhm // 15 pF 40 / 60 % $< 4 \text{ nsec.}$
Temperature ranges Operating: Operable: Storage:	$-20^\circ\text{C} \dots +70^\circ\text{C}$ $-25^\circ\text{C} \dots +75^\circ\text{C}$ $-40^\circ\text{C} \dots +85^\circ\text{C}$

2. Environmental conditions

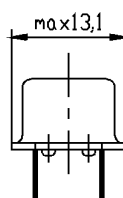
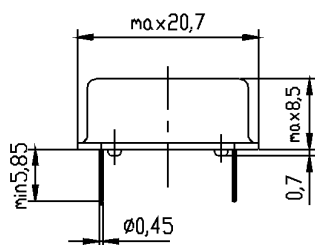
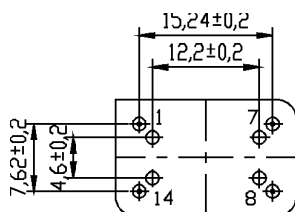
Shock:	DIN IEC 68-2-27, Test Ea, 100 g, 6ms Half-sine, 3 bumps in 3 main directions
Vibration:	DIN IEC 68-2-6, Test Fc, 10-500Hz, 10g, 2 h in 3 main directions
Humidity:	DIN IEC 68-2-3, $40^\circ\text{C}/93\%\text{RH}$, 21 days
Solderability:	DIN IEC 68-2-20 only for wire leads, Methode 3: Solder globule at $+235^\circ\text{C}$

3. Marking

Manufacturer's name, date code(week/year)
Specification
Center frequency

4. Case

Case style: BF-100



1.Pin configuration

- 1. Control voltage U_C
- 7. Ground, case
- 8. RF-output
- 14. Supply voltage

5. Test circuit

