

TO-600

1. Specification

Type:	TO-601	TO-602
Frequency range:	12.8 ... 38.88 MHz	
Nominal freq. tolerance, bef. reflow sold. $U_C = 2.5V$: after reflow soldering $U_C = 2.5V$:	< ± 2 ppm < ± 3 ppm	
Frequency stability in the temperature range - 20°C to + 70°C:	< ± 1 ppm	< ± 2 ppm
Frequency stability vs. supply voltage changes $U_B \pm 5\%$: vs. load changes $\pm 5\%$:	< ± 0.5 ppm < ± 0.5 ppm	
Aging @ 25°C :	< ± 2 ppm / year < ± 10 ppm in 15 years	
Frequency correction:	$\geq \pm 10$ ppm by ext. volt. 0.5 ... 4.5V	
Supply voltage U_B :	5 V $\pm 5\%$	
Current consumption for frequency ≤ 20 MHz: for frequency > 20 MHz:	≤ 20 mA ≤ 30 mA	
Output voltage : load : duty cycle : rise time, fall time:	HCMOS 1 kOhm // 15 pF 40 % ... 60 % ≤ 10 ns	
Phase noise: 100 Hz: 1000 Hz:	-100 dBc / Hz -120 dBc / Hz	
Temperature ranges Operating: Operable: Storage:	-20°C ... +70°C -25°C ... +75°C -40°C ... +105°C	



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2. Environmental conditions

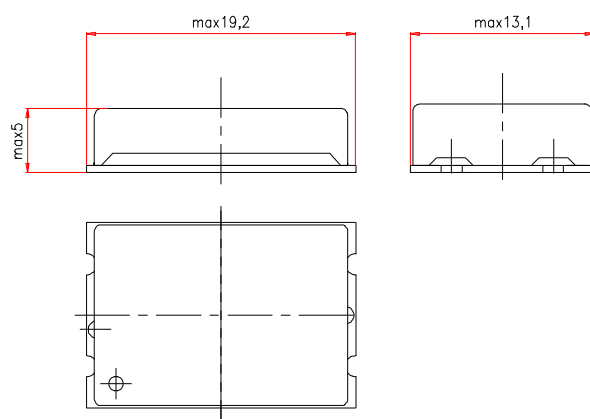
Shock:	DIN IEC 68-2-27, Test Ea, 100 g, 6ms Half-sine, 3 bumps in 3 main directions
Vibration:	DIN IEC 68-2-6, Test Fc, 10-500Hz, 10g, 2 h in 3 main directions
Humidity:	DIN IEC 68-2-3, 40°C/93%RH, 21 days
Solderability:	CECC 00802 Paragr. 7.2.1 Infrared Reflow

3. Marking

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

4. Case

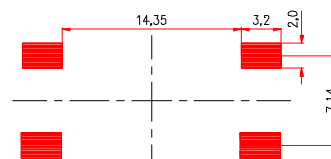
Case style: BF169



pin 1 indicator

1. Pin configuration

1. Control voltage U_C
2. Ground
3. RF-output
4. Supply voltage U_B



recommended soldering pattern



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