



ROHS-Compliant Product

TO-300 Series



| 1. Specification | | | | |
|---|--|------------------------|--|------------------------|
| Specification: | TO-301 | TO-302 | TO-311 | TO-312 |
| Frequency range: | 10.00 ... 40.00 MHz | | | |
| Nominal frequency tolerance: | ± 3 ppm | | ± 3 ppm $U_C=2.5</math> V$ | |
| Stability in the temperature range - 20°C to + 70°C: | ± 1 ppm | ± 2 ppm | ± 1 ppm | ± 2 ppm |
| Frequency stability vs. supply voltage changes $U_B \pm 5\%$: vs. load changes $\pm 5\%$: | ± 1 ppm ± 1 ppm | | | |
| Aging @ 25°C: | ± 2 ppm first / ± 1 ppm following years | | | |
| Frequency correction: | ± 5 ppm by int. trimmer | | ± 8 ppm by ext. voltage 0.5 ... 4.5 V | |
| Transfer function / Linearity: | - | | positive | |
| Supply voltage U_B : | 5 V $\pm 5\%$ | | | |
| Current consumption: | ≤ 5 mA | | | |
| Output voltage : load : level : | Sinusoidal 560 Ohm > 500 mVpp | | | |
| Phase noise: 100 Hz 1000 Hz | -105 dBc/Hz -120 dBc/Hz | | | |
| Operating Temperature range: Operable Temperature range: Storage Temperature range: | -20°C ... + 70°C -25°C ... + 75°C -40°C ... + 85°C | | | |
| 2. Environmental conditions | | | | |
| According to KVG Product Qualification Procedure AA-QM-200 | | | | |

| | | | | |
|----|---------------|----------|--------------|---|
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| 1 | TO-300 series | 02.07.96 | H.-J. Herzog | |
| ED | Description | Date | Name | |



TO-300 Series

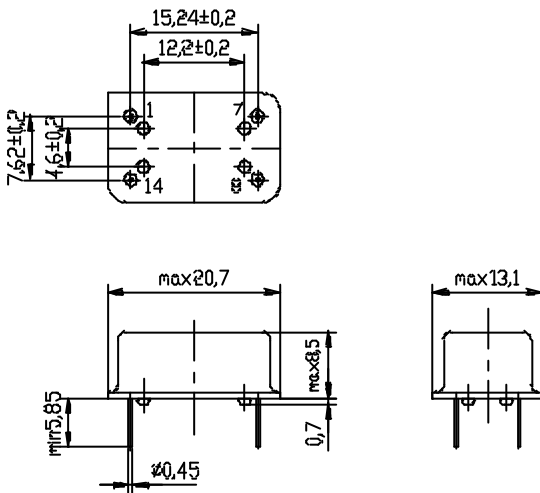


3. Marking

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

4. Case

Case style: BF-100



1.Pin configuration

TO-301 / TO-302:

- 1. N.C.
- 7. Ground, case
- 8. RF-output
- 14. Supply voltage

TO-311 / TO-312:

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

| | | | | |
|----|---------------|----------|--------------|------------------------------------|
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