

1. Specification

Type:	101	102	103	104
Nom. frequency range, T = 25°C:	2 ... 51.84 MHz			
Nom. freq. tolerance after reflow:	< ± 10 ppm			
Frequency stability temp-stability: temperature range: vs. supply voltage U _B ± 5 %: vs. load changes ± 20 %:	< ± 15 ppm - 20 ... + 70°C < ± 5 ppm < ± 2 ppm	< ± 20 ppm - 40 ... + 85°C < ± 5 ppm < ± 2 ppm	< ± 15 ppm - 20 ... + 70°C < ± 5 ppm < ± 2 ppm	< ± 20 ppm - 40 ... + 85°C < ± 5 ppm < ± 2 ppm
Aging:	± 3 ppm first / ± 1 ppm following years			
Freq. control range:	≥ ± 100 ppm			
Control voltage U _c :	0.5 ... 4.5 V		0.0 ... 3.0 V	
Nominal frequency at U _c :	2.5 V		1.5 V	
Transfer function / Linearity:	positive / 10 %			
Supply voltage U _B :	5 V ± 5 %		3.3 V ± 5 %	
Current consumption:	≤ 40 mA			
Output voltage : load : duty cycle : rise time, fall time	HCMOS 1 kOhm//15 pF 40 / 60 % < 5 ns		LVHCMOS 1 kOhm//15 pF 40 / 60 % < 5 ns	
Temperature ranges Operating: Operable: Storage:	-20 ... + 70°C -40 ... + 85°C -40 ... +105°C	-40 ... + 85°C -40 ... + 85°C -40 ... +105°C	-20 ... + 70°C -40 ... + 85°C -40 ... +105°C	-40 ... + 85°C -40 ... + 85°C -40 ... +105°C

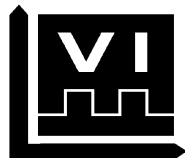
2. Environmental conditions

According to KVG Product Qualification Procedure AA-QM-200

3. Marking

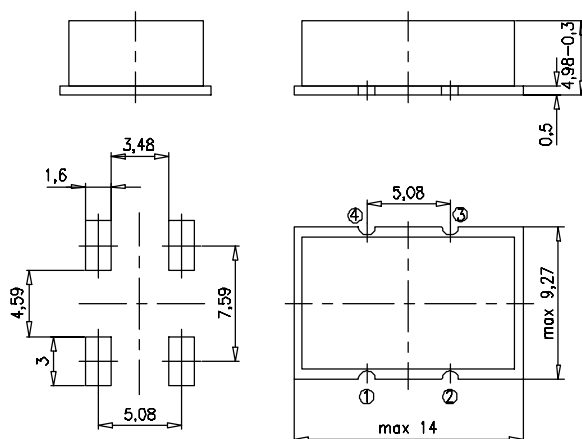
Manufacturer's name, date code(week/year), Specification, Center frequency

8	Max. supply current	16.10.00	H.-J. Herzog	Vectron International GmbH
8	3.3V and -40 ... +85°C version	16.08.00	H.-J. Herzog	P.O.Box 61
7	Case-style BF-157-5.0	18.10.98	H.-J. Herzog	D-74924 Neckarbischofsheim
6	Frequency range up to 38.88MHz	10.08.98	H.-J. Herzog	Tel. +49 (0) 7263 / 648-0
ED	Description	Date	Name	Fax. +49 (0) 7263 / 6196



4. Case

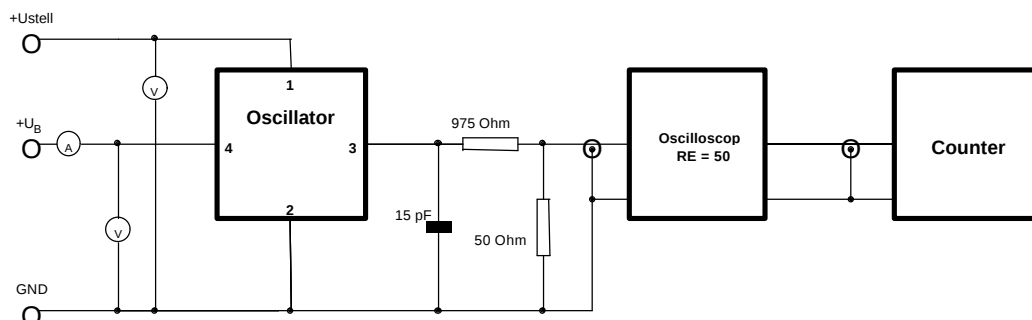
Case style: BF-157-5.0



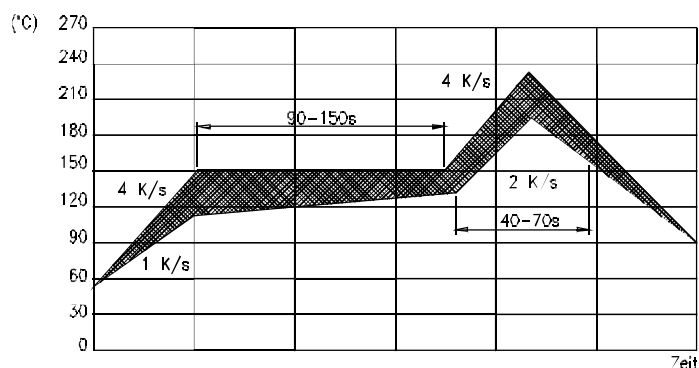
1.Pin configuration

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

5. Test circuit



6. Recommended soldering profile



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