

# VCXO-2070S

## 1. Specification

Nominal Frequency Range:	2 MHz to 32 MHz
Nominal freq. tolerance @ $U_C = 2.5V$ , $T = 25 \pm 3^\circ C$ :	$< \pm 10$ ppm
Frequency deviation after reflow and cooling to $25^\circ C$ :	$< \pm 3$ ppm
Frequency stability in the temperature range $-20^\circ C$ to $+70^\circ C$ : vs. supply voltage changes $U_B \pm 5\%$ : vs. load changes $\pm 5\%$ :	$< \pm 15$ ppm $< \pm 5$ ppm $< \pm 5$ ppm
Aging @ $25^\circ C$ :	$< \pm 5$ ppm / first year $< \pm 2$ ppm / year in the following years
Frequency control range:	$\geq \pm 100$ ppm
Control voltage $U_C$ :	0.5 V to 4.5 V
Transfer function / Linearity:	positive / 10%
Supply voltage $U_B$ :	$5 V \pm 5\%$
Current consumption:	$\leq 25$ mA
Output voltage : load : duty cycle : rise time, fall time:	HCMOS 1 kOhm // 15 pF 40% / 60% $\leq 8$ ns (load 1kOhm//15pF)
Temperature ranges Operating: Operable: Storage:	$-20^\circ C \dots +70^\circ C$ $-25^\circ C \dots +75^\circ C$ $-40^\circ C \dots +85^\circ C$

## 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, $40^\circ C/93\%RH$ , 21 days
Solderability:	DIN IEC 68-2-20 only for wire leads, Methode 3: Solder globule at $+235^\circ C$



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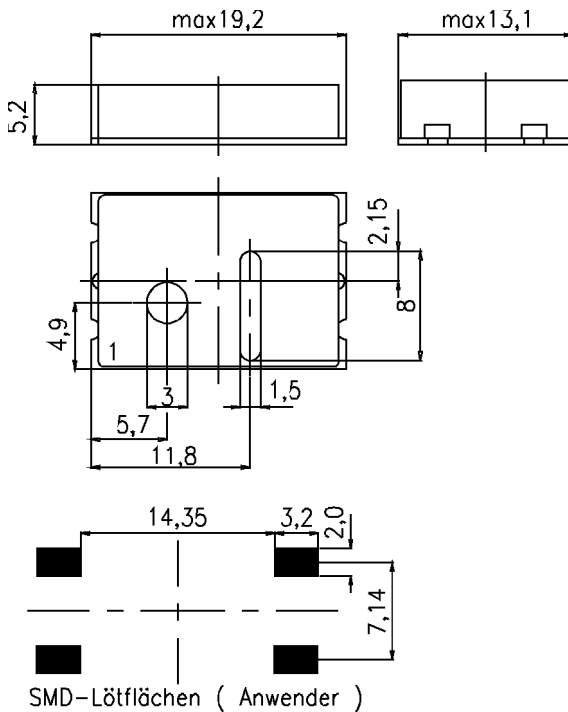
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## 3. Marking

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

## 4. Case

Case style: BF 141



### 1.Pin configuration

1. Control voltage  $U_C = 0.5V \dots 4.5V$
2. Ground, Case
3. RF-Output
4. Supply voltage  $U_B$

## 5. Test circuit

