ROHS-Compliant Product

O-6000AT Series

1. Specification

Frequency range:	5 ... 100 MHz	
Type:	**O-6500AT**	**O-6300AT**
Supply voltage V_S:	+5.0 V ± 5 %	+3.3 V ± 5 %
Frequency stability vs. temperature options: $\leq \pm$ 2 x 10^{-8} vs. 0 °C to +50 °C: $\leq \pm$ 3 x 10^{-8} vs. –10 °C to +60 °C: $\leq \pm$ 1 x 10^{-7} vs. –20 °C to +70 °C: $\leq \pm$ 5 x 10^{-8} vs. –20 °C to +70 °C: $\leq \pm$ 1 x 10^{-7} vs. –40 °C to +85 °C:	 **650x** **651x** **652x** **653x** **654x**	 **630x** **631x** **632x** **633x** **634x**
Aging stability option (after 30 days of continuous operation) < $\pm$ 1 x 10^{-9} / day; < $\pm$ 1 x 10^{-7} / year: < $\pm$ 2 x 10^{-9} / day; < $\pm$ 2 x 10^{-7} / year: < $\pm$ 3 x 10^{-9} / day; < $\pm$ 3 x 10^{-7} / year:	 **65x1** **65x2** **65x3**	 **63x1** **63x2** **63x2**
Frequency stability vs. supply voltage changes V_S ± 5 %: vs. load changes ± 5 %:	$\leq \pm$ 1.0 x 10^{-8} $\leq \pm$ 5.0 x 10^{-9}	
Frequency control by external voltage 0 V … V_{REF}:	$\geq \pm$ 3 ppm	
Transfer function / Linearity:	Positive / $\leq$ 10 %	
Reference voltage V_{REF}:	+4.0 V ± 5 %	+3.0 V ± 5 %
Power consumption @ +25 °C steady state: during warm-up:	 $\leq$ 1.5 W $\leq$ 3.5 W	
Warm-up time: (for a typical accuracy of $\leq \pm$ 5 x 10^{-8} @ +25 °C referred to final frequency after 1 hour)	$\leq$ 5 min	
Output voltage / Load Option **H**: Option **S**:	 HCMOS / 1 kOhm // 15 pF Sinewave / $\geq$ +3 dBm / 50 Ohm	
Phase noise: 10 Hz: 100 Hz: 1 kHz: 10 kHz:	(typical for 10 MHz) -90 dBc / Hz -125 dBc / Hz -140 dBc / Hz -150 dBc / Hz	
Storage temperature range:	-45 °C ... +90 °C	

ED	Description	Date	Name
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3			
2			
1		24.08.07	M. Zupan

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Fax. +49 (0) 7263 / 6196

Subject to technical modification

O-6000AT Series

2. Environmental conditions

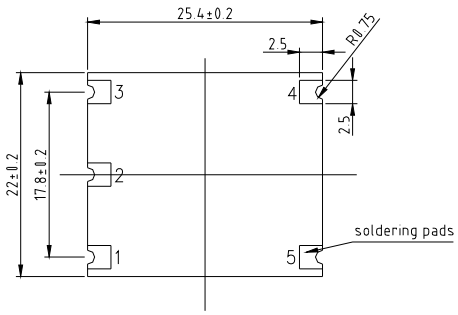
According to KVG Product Qualification Procedure AA-QM-200

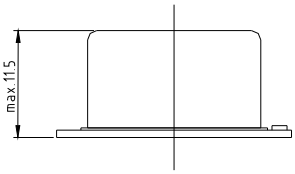
3. Marking

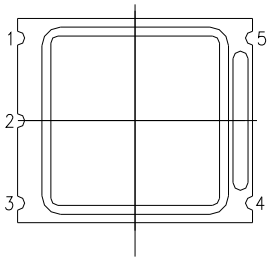
Manufacturer's name, date code (week/year); Specification; Center frequency

4. Case

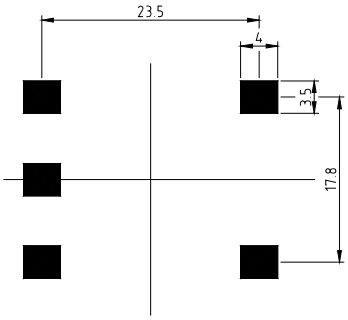
BF144-11.5-SMD







Foot print
for PCB Design



1.Pin configuration

1. Control voltage V_C
2. Reference voltage output V_{REF}
3. Supply voltage V_S
4. RF-output
5. Ground, case

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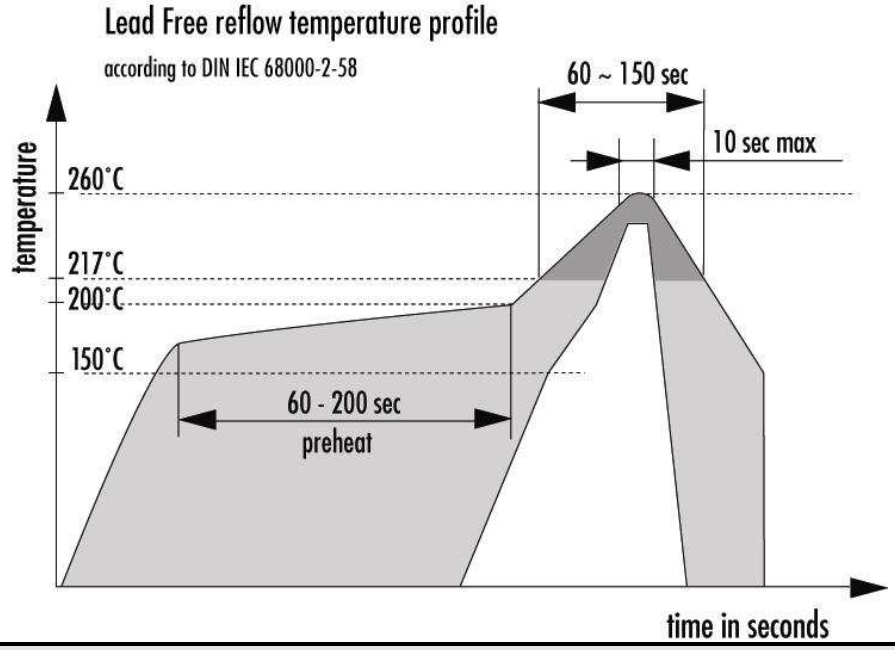
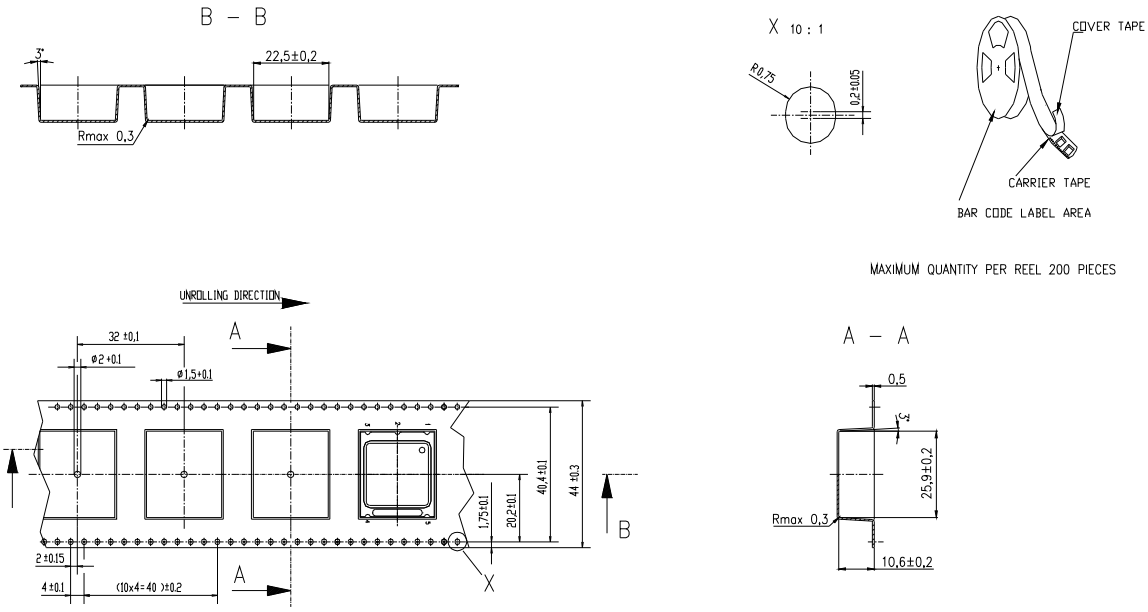
5.Recommended soldering profile



6. Tape and reel



max. pcs per tape: 150

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