5.0V SINEWAVE SMD VOLTAGE CONTROLLED OSCILLATOR



AVSS SERIES

FEATURES:

- 14.3 x 8.7 x 5.0 True SMT RoHS Compliant Reflow-able Package
- AT-Cut high "Q" resonator based design
- Available with -40°C to +85°C operating temperature range
- Excellent close-in phase noise
- (-135 dBc/Hz @ 1kHHz offset 28 MHz carrier)
 Designed with "Tuned Output Stage" to drive 50Ω systems

STANDARD SPECIFICATIONS:

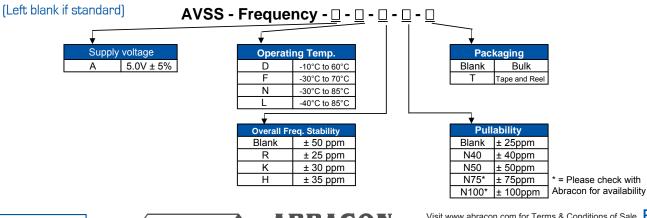
RoHS Compliant

APPLICATIONS: Cellular Infrastructure

- Phase Locked Loop based systems & communication cards
- Hand held instruments requiring excellent receiver sensitivity
- Ideally suited for 50Ω systems requiring Low Total Harmonic Distortion
- Systems requiring Low power consumption into 50Ω's

PARAMETERS	
ABRACON P/N	AVSS Series
Frequency Range	10.00 MHz to 100.00 MHz
Operating Temperature	-20° C to + 70° C (see options)
Storage Temperature	-40° C to + 85° C
Frequency Stability vs. Ambient Temp. Operating Temp. Aging (1st Year) Aging (10 Years) Vdd ± 5%	± 5 ppm ± 50 ppm max. (see options) ± 5 ppm max., ± 2ppm typ. ± 15 ppm max. ± 1 ppm
Supply Voltage (Vdd)	5.0 V ± 5%
Current Consumption (Idd)	35mA Max.
Output Load	50 Ω (Sinewave)
Output Power	0±2dBm
Voltage Control	0 to Vdd
Center Voltage Control	Vdd/2
Transfer Function	Positive
Modulation Linearity	+/-10% Max.
Start-up Time	5ms max.
Phase Jitter RMS	5ps max.
Pullability	± 25ppm (see options)
Spurious Response	-60 dBc max.
Harmonics	-15 dBc max.
Typical Phase Noise @ 28 MHz Carrier	-90 dBc/Hz @ 10Hz offset, -122 dBc/Hz @ 100Hz offset, -135 dBc/Hz @ 1kHz offset, -150 dBc/Hz @ 10kHz offset, -155 dBc/Hz @ 100kHz offset
3dB Modulation Bandwidth	20kHz typ, 10kHz min.

OPTIONS & PART IDENTIFICATION:





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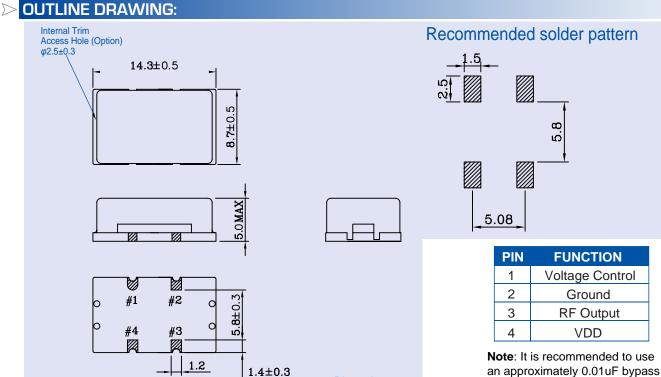
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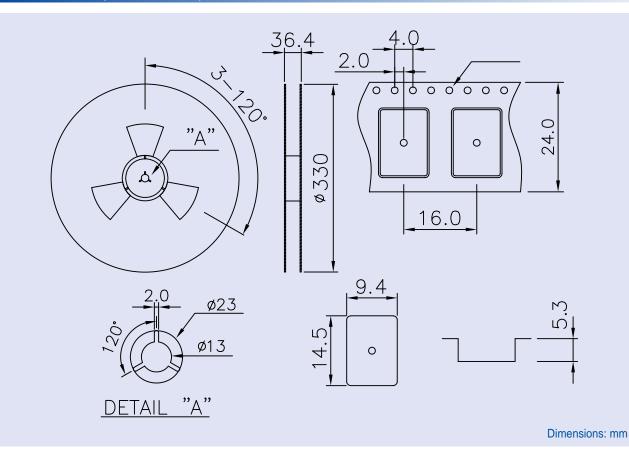


capacitor between PIN 2 and 4.



Dimensions: mm

TAPE & REEL: Tape and reel 1,000pcs/reel



ABRACON IS ISO 9001 / QS 9000 CERTIFIED



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