

HCMOS/TTL COMPATIBLE VOLTAGE CONTROLLED CRYSTAL OSCILLATOR

ASVV



RoHS
Compliant



7.0 x 5.0 x 1.6 mm

FEATURES:

- Low profile (1.7) ceramic VCXO
- Enable/Disable functions
- 7.0mm x 5.0mm seam welded
- HCMOS/TTL output
- Suitable for reflow methods

APPLICATIONS:

- Phase locked loops (PLLs)
- Synthesizers
- Clock Recover, Digital Transmission device
- Digital set-up box

STANDARD SPECIFICATIONS:

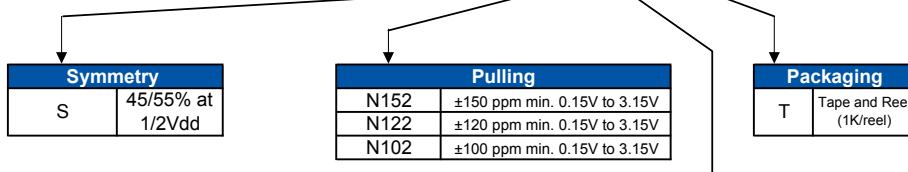
PARAMETERS

ABRACON P/N	ASVV Series
Frequency Range	1.000 MHz to 200.00 MHz
Operating Temperature	0°C to + 70°C (See options)
Storage Temperature	-45°C to +90°C
Overall frequency stability	± 50ppm max. (See options)
Supply voltage (Vdd)	3.3 Vdc ± 5% (see options)
Input Current	15mA max. For 1MHz to 24MHz 30mA max. For 24.01MHz to 96MHz 40mA max. For 96.01MHz to 200MHz
Symmetry	40/60 % max.@ 1/2Vdd (see options)
Rise and fall time (Tr/Tf)	10ns max.
Output Load	30pF/5TTL max.
Output Voltage	VOH = 0.9 * Vdd min.; VOL = 0.1 * Vdd max.
Control Voltage (Vc)	1.65Vdc ± 1.5V (see options)
Pulling	± 80 ppm minimum (see options)
Start-up time	10 ms max.
Tri-state function	"1" (VIH ≥ 2.2 Vdc) or open: Oscillation "0" (VIL < 0.8 Vdc) : Hi Z
Period jitter (Peak to Peak)	±30ps typical. (Period Jitter vary with frequencies.)
Linearity	±10% max.

OPTIONS & PART IDENTIFICATION:

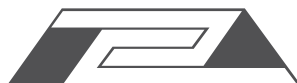
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ASVV-Frequency - - - -



Operating Temperature	Frequency stability (ppm)				
	±10 ppm	±15 ppm	±20 ppm	±30 ppm	±50 ppm
0°C to 50°C	I10	I15	I20	I30	I50
0°C to 60°C	B10	B15	B20	B30	B50
-10°C to 60°C	D10	D15	D20	D30	D50
0°C to 70°C		C15	C20	C30	STD (Left blank)
-10°C to 70°C		F15	F20	F30	F50
-20°C to 70°C			E20	E30	E50
-40°C to 85°C				L30	L50

ABRACON IS
ISO 9001 / QS 9000
CERTIFIED



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ASV

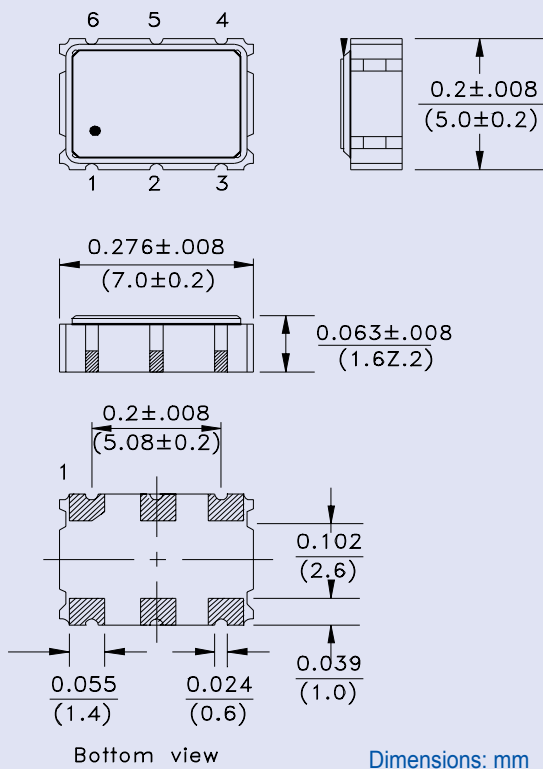


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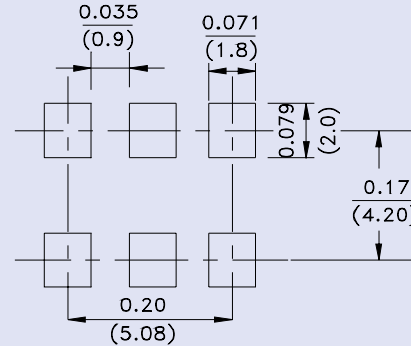


7.0 x 5.0 x 1.6 mm

OUTLINE DRAWING:



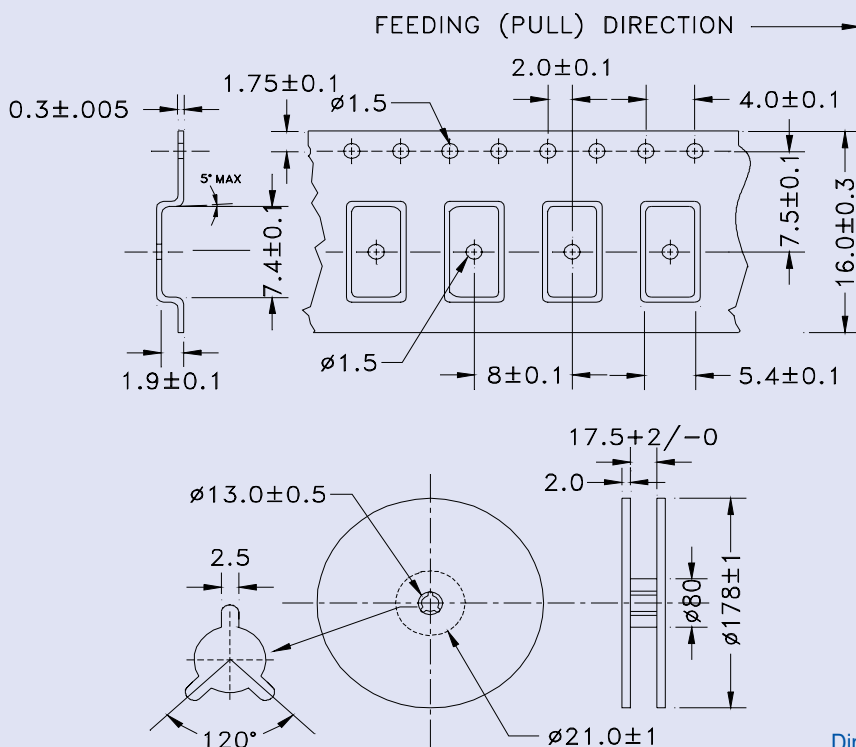
Recommended land pattern



PIN	FUNCTION
1	Voltage Control Vc
2	Tristate Control
3	GND/Case
4	Output
5	NC
6	Vdd

Note: It is recommended to use an approximately 0.01uF bypass capacitor between PIN 3 and 6.

TAPE & REEL:



Dimensions: mm