2.5V / 3.3Vdc PROGRAMMABLE SPREAD SPECTRUM LOW EMI CLOCK OSCILLATOR



ASSVP SERIES

Moisture Sensitivity Level (MSL) – This product is Hermetically Sealed and not Moisture Sensitive - MSL = N/A: Not Applicable

FEATURES:

- Spread Spectrum LOW EMI Oscillator
- 7.0 x 5.0 x 1.4mm Ceramic package
- Tri-state function
- Suitable for RoHS reflow profile
- Seam sealed ceramic package assures high reliability.

STANDARD SPECIFICATIONS:

Key Electrical Specifications (Die IC's Part Number PL671-00-A5)

Parameters			Minimum	Typical	Maximum	Units	Notes
Frequency Range:			10		160	MHz	
Spread Spectrum Type Center Spread Down Spread		±0.25 typ. ~ ±2.0 typ. -0.5 typ. ~ -4.0 typ.			%	See table 3 for options	
EMI Reduction (Reduction is applied to the entire frequency spectrum)		100MHz at C02	-7		5.	dBc	Refer to the dB level when no modulation.
		100MHz at C04	-9				
Operating Temperature:		-40		+85	°C	See options	
Storage Temperature:		-55		+125	°C		
Overall Frequency Stability*:		-50		+50	ppm	See options	
Supply Voltage	, v	$V_{\rm dd} = 3.3 {\rm V}$	2.97	3.3	3.63	V	Standard
(Vdd):	, T	$V_{\rm dd} = 2.5 {\rm V}$	2.25	2.5	2.75	V	Option 1
Input Current:	13.000 to 49.999MHz			10	20	mA	$V_{dd} = 2.5 V$
	50.000 to 79.999MHz			15	20		
	80.000 to 99.999MHz			20	25		
		0 to 160.0MHz		25	30		
	13.000 to 49.999MHz			15	20	mA	$V_{dd} = 3.3V$
	50.000 to 79.999MHz			20	25		
	80.000 to 99.999MHz			25	30		
	100.0 to 160.0MHz			30	40		
Symmetry:		45	50	55	%	@ 1/2Vdd, CL=15pF	
Rise and Fall Time (Tr/Tf)**:	13.00	0 to 49.999MHz		2.0	5.0		
	50.000 to 79.999MHz			2.0	4.0	ns	$V_{dd} = 2.5V$
	80.000 to 99.999MHz			1.5	3.0		
	100.0 to 160.0MHz			1.5	3.0		
	13.000 to 49.999MHz			3.0	10.0	ns	$V_{dd} = 3.3V$
	50.000 to 79.999MHz			2.5	8.0		
	80.000 to 99.999MHz			2.0	5.0		
	100.0 to 160.0MHz			1.5	4.0		
Output Load:			1.0	15	pF	CMOS	
1	VOH		0.9*Vdd		10	V	01100
Output Voltage:		VOL	0.2 / 44		0.1*Vdd	V	
Start-up Time:				2.0	10.0	ms	
Tri-state function (Stand-by) :			"1" (VIH≥0.7*Vdd) or Open: Oscillation "0" (VIH<0.3*Vdd) : Hi Z				
Modulation carrier frequency (Dither rate)			Programmable dependant (30kHz to 40kHz)				
Aging:			-3.0		+3.0	ppm	@+25°C First year

* Frequency stability includes initial tolerance, temperature characteristics, load variation, and supply voltage variation,.

ABRACON IS ISO9001:2008 CERTIFIED



RoHS / RoHS II Compliant

7.0 x 5.0 x 1.4mm

Quick Turn Delivery! Days for small quantities!

- **APPLICATIONS:** • Laptop computer
 - PDA
 - LCD
 - Digital camera

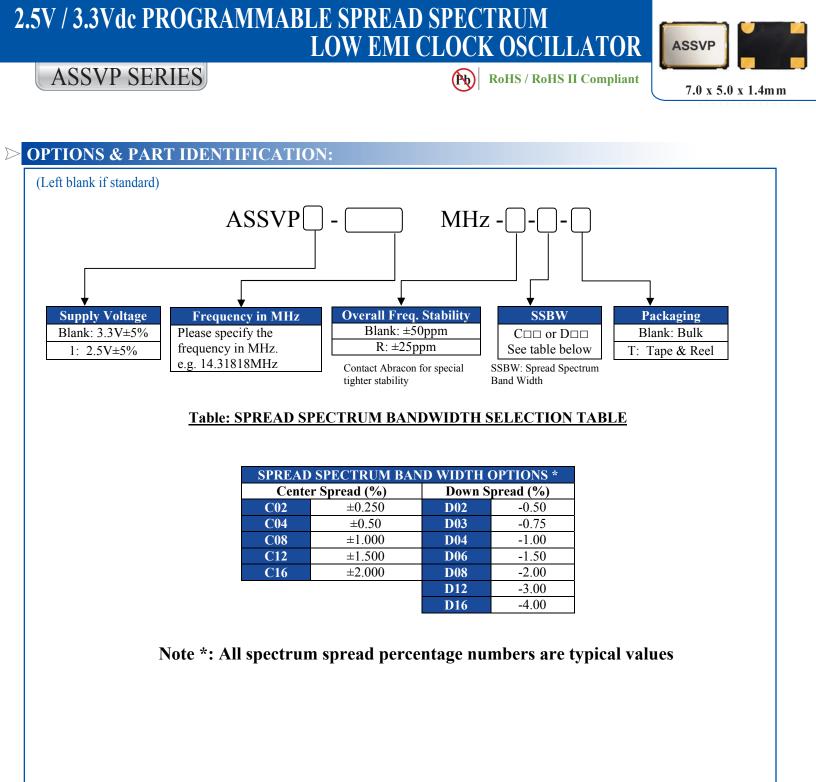
(Pb)

- Mobile phone

 - Printer

• Wireless LAN

• Flat TV





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2.5V / 3.3Vdc PROGRAMMABLE SPREAD SPECTRUM LOW EMI CLOCK OSCILLATOR

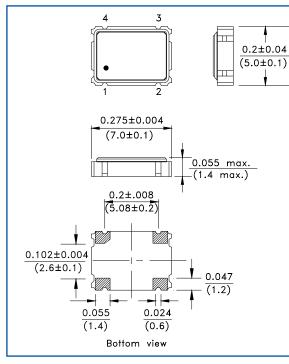


ASSVP SERIES

(Pb) RoHS / RoHS II Compliant

7.0 x 5.0 x 1.4mm

OUTLINE DRAWING:

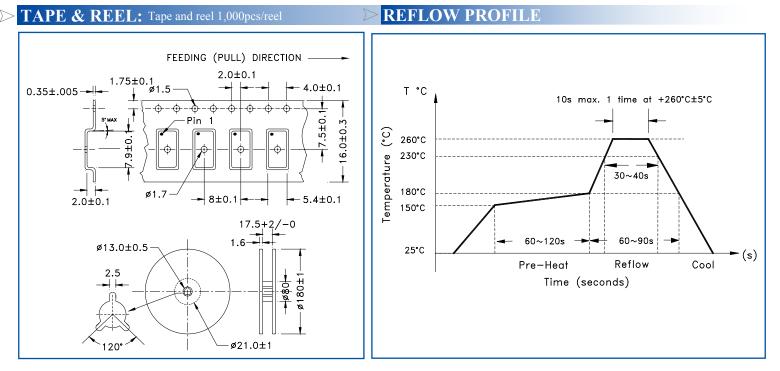


Recommended land pattern 0.20 (5.08) (4.0) 0.071 (1.8)0.01 uF

Note: Recommend using an approximately 0.01uF bypass capacitor between PIN 2 and 4.

Pin	Function
1	Tri-State
2	GND/Case
3	Output
4	Vdd

Dimensions: Inches (mm)





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