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





ESD Sensitive



RoHS / RoHS II Compliant



5.0 x 3.2 x 1.3 mm

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

FEATURES:

- Spread Spectrum LOW EMI Oscillator
- 5.0 x 3.2 x 1.3mm Ceramic package
- Tri-state function
- Suitable for RoHS reflow profile
- Seam sealed ceramic package assures high reliability.

> APPLICATIONS:

- Laptop computer
- PDA
- LCD
- Digital camera
- Wireless LAN
- Mobile phone
- Printer
- Flat TV

Quick Turn Delivery! <5 Days for small quantities!

STANDARD SPECIFICATIONS:

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

	ımeter	S	Minimum	Typical	Maximum	Units	Notes
Frequency Range:			8		160	MHz	
Spread Spectrum Type Center		Center Spread	$\pm 0.25 \text{ typ.} \sim \pm 2.0 \text{ typ.}$		%	See table 3 for options	
		Down Spread	$-0.5 \text{ typ.} \sim -4.0 \text{ typ.}$				
EMI Reduction (Reduction is applied to the entire frequency spectrum)		100MHz at C02	-7			dBc	Refer to the dB level when no modulation.
		100MHz at C04	-9				
Operating Temperature:			-40		+85	°C	
Storage Temperatur			-55		+125	°C	
Overall Frequency	Overall Frequency Stability*:		-50		+50	ppm	See options
Supply Voltage		$V_{\rm dd} = 3.3 \text{V}$	2.97	3.3	3.63	V	Standard
(Vdd):	7	$V_{\rm dd} = 2.5 \mathrm{V}$	2.25	2.5	2.75	V	Option 1
	8.000	00 to 49.999MHz		10	20	A	V - 25V
	50.000 to 79.999MHz			15	20		
	80.000	to 99.999MHz		20	25	mA	$V_{dd} = 2.5V$
Input Current:	100.0	0 to 160.0MHz		25	30		
input Current.	8.000 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	
	8.000 to 49.999MHz			2.0	5.0	ns	$V_{dd} = 2.5V$
. [50.000 to 79.999MHz			2.0	4.0		
. [80.000 to 99.999MHz			1.5	3.0		
Rise and Fall	100.0 to 160.0MHz			1.5	3.0		
Time (Tr/Tf)**:	8.000 to 49.999MHz			3.0	10.0		$V_{dd} = 3.3V$
. [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:				15	pF	CMOS	
Outmut Waltaga		VOH	0.9*Vdd			V	
Output Voltage:		VOL			0.1*Vdd	V	
Start-up Time:			2.0	10	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 (15kHz to 120kHz)				
Aging:			-3.0		+3.0	ppm	@+25°C First year

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





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5.0 x 3.2 x 1.3 mm

> OPTIONS & PART IDENTIFICATION:

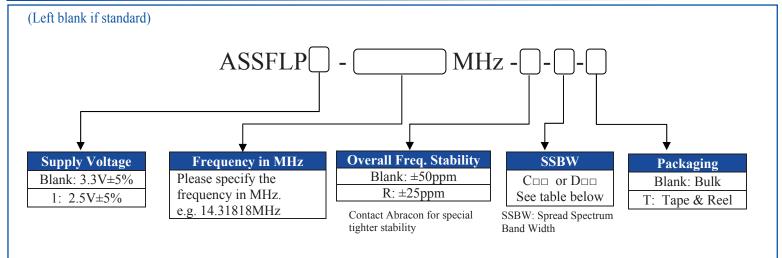


Table: SPREAD SPECTRUM BANDWIDTH SELECTION TABLE

SPREAD SPECTRUM BAND WIDTH OPTIONS *						
Cente	r Spread (%)	Down Spread (%)				
C02	±0.250	D02	-0.50			
C04	±0.50	D03	-0.75			
C08	±1.000	D04	-1.00			
C12	±1.500	D06	-1.50			
C16	±2.000	D08	-2.00			
		D12	-3.00			
		D16	-4.00			

Note *: All spectrum spread percentage numbers are typical values





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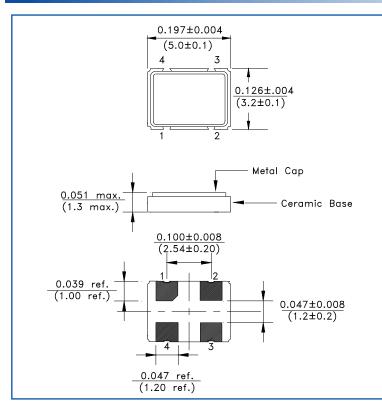
ASSFLP SERIES

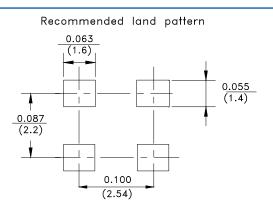




5.0 x 3.2 x 1.3 mm

OUTLINE DRAWING:





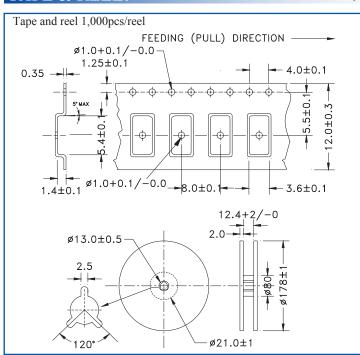
Note: Recommend using an approximately 0.01uF bypass capacitor between PIN 2 and 4.

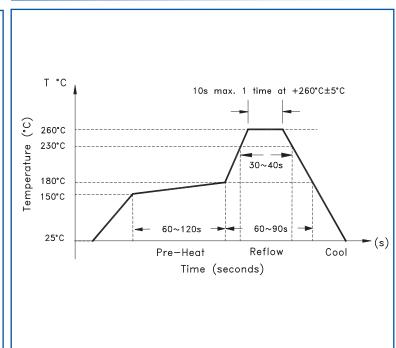
Pin	Function
1	Tri-State
2	GND/Case
3	Output
4	Vdd

Dimensions: Inches (mm)

► TAPE & REEL:

REFLOW PROFILE







Need a test socket for the ASSFLP Series? To view compatible **PRECISION TEST** and **BURN-IN SOCKET** for these parts, click here.

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