

CMOS/TTL SMD PROGRAMMABLE CRYSTAL OSCILLATOR

ASEP SERIES



3.2 X 2.5 X 1.05 mm



RoHS
Compliant

FEATURES:

- Wide frequency range from 1MHz up to 125MHz
- Miniature size for high density applications
- -40 + 85°C industrial operating temperature available

APPLICATIONS:

- Precision clock frequency for a wide range of emerging technology applications.

**For Small Quantities,
Delivery Time
is 1-5 days**

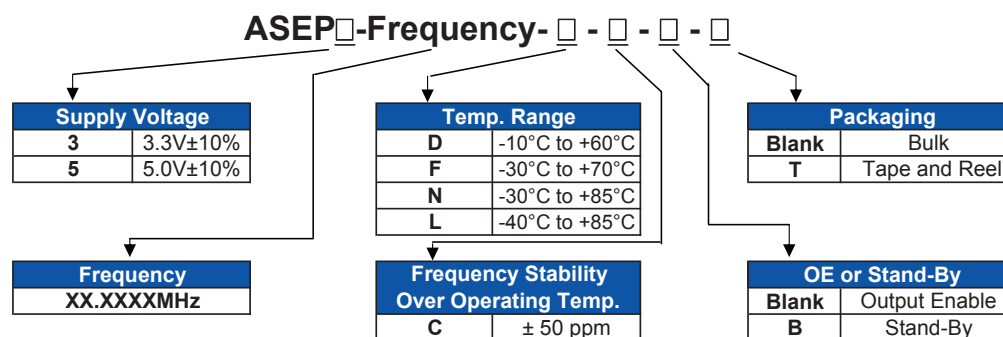
STANDARD SPECIFICATIONS:

PARAMETERS

ABRACON P/N		ASEP Series			
Characteristics		Unit	Minimum	Typical	Maximum
Frequency Range		MHz	1	--	125
Operating Temp. Range * (See Options)		°C	-20	--	70
Storage Temp. Range * (See Options)		°C	-55	--	125
Freq. Stability Over Operating Temp.* (See Options)		ppm	-100	--	100
Supply Voltage (See options)	ASEP3	VDC	2.97	3.3	3.63
	ASEP5	VDC	4.5	5.0	5.5
Supply Current	ASEP3	mA	--	--	25
	ASEP5	mA	--	--	45
Disable Current (See options)	ASEP3	mA	--	--	15
	ASEP5	mA	--	--	30
Stand-by Current (See options)		uA	--	--	50
Output Load		CMOS	15pF (ASEP3 and ASEP5)		
		TTL	5TTL max. (ASEP5 only)		
Symmetry	CMOS (1/2Vdd)	%	40	50	60
	TTL (1.4V)	%	40	50	60
Rise Time	CMOS (20%Vdd<=>80%Vdd)	nSec	--	--	4
	TTL(0.4V<=>2.4V)	nSec	--	--	4
Fall Time	CMOS (20%Vdd<=>80%Vdd)	nSec	--	--	4
	TTL (0.4V<=>2.4V)	nSec	--	--	4
Output Voltage		CMOS	VOH	--	0.9*Vdd min.
			VOL	0.1*Vdd max.	--
		TTL	VOH	--	0.9*Vdd min.
			VOL	0.4*Vdd max.	--
Input (OE) Voltage		ASEP3 (CMOS)	VIH	--	0.7*Vdd min.
			VIL	0.2*Vdd max.	--
		ASEP5 (CMOS and TTL)	VIH	--	2.0V min.
			VIL	0.8V max.	--
Start-Up time		ms	--	--	10
Output Disable Time		ns	--	--	100
Output Enable Time (OE)		ns	--	--	100
Output Enable Time (ST)		ms	--	--	10
Aging (First Year)		ppm	-5	--	5

OPTIONS & PART IDENTIFICATION:

[Left blank if standard]



Please contact ABRACON for tighter stability



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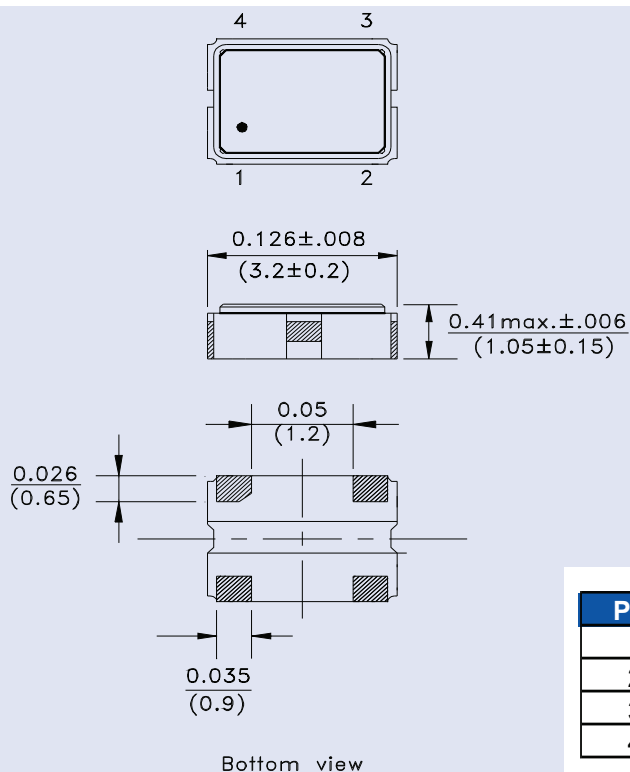


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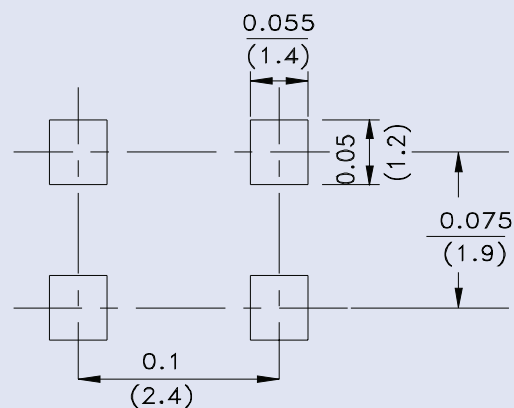


3.2 X 2.5 X 1.05 mm

OUTLINE DRAWING:



Recommended land pattern

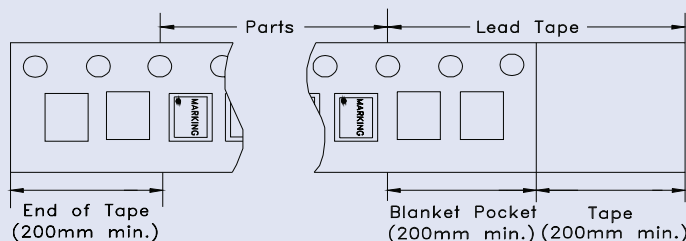
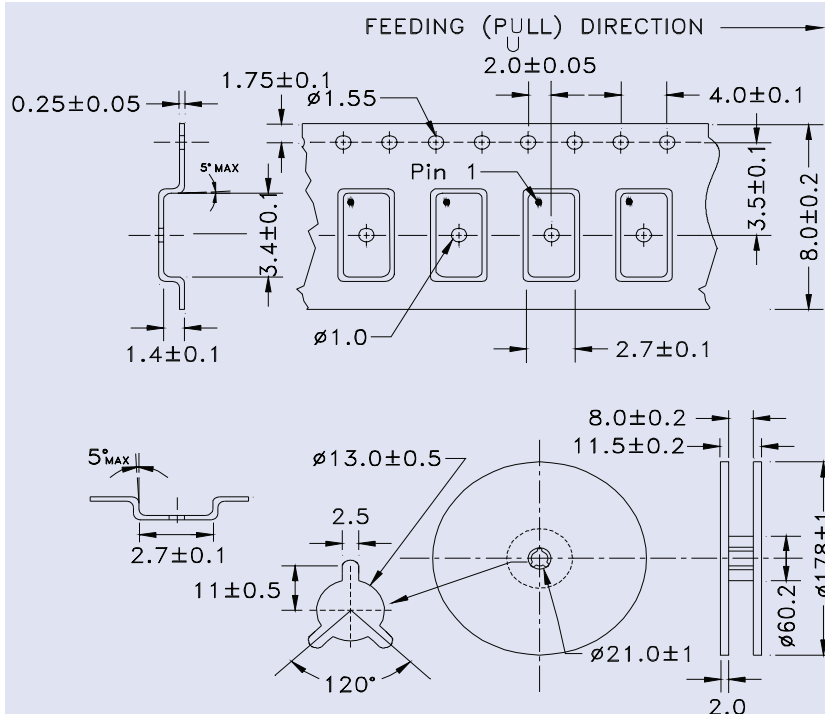


Dimensions: mm

PIN	FUNCTION
1	OE or Stand-By
2	GND
3	Output
4	Vdd

Note: It is recommended to use an approximately 0.01uF bypass capacitor between PIN 2 and 4.

TAPE & REEL:



Dimensions: mm

ABRACON IS
ISO 9001 / QS 9000
CERTIFIED



ABRACON
CORPORATION

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