

HALF SIZE DIP LOW VOLTAGE 5.0V CRYSTAL CLOCK OSCILLATOR

ACH Series



ESD Sensitive



RoHS/RoHS II Compliant



12.7 x 12.7 x 5.6mm

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

FEATURES:

- Wide frequency range.
- HCMOS and TTL compatible.
- Tight symmetry option.
- Tri-state Enable / Disable function.

APPLICATIONS:

- Microprocessors.
- Digital circuit.

STANDARD SPECIFICATIONS:

Parameters		Minimum	Typical	Maximum	Units	Notes
Frequency Range		0.032768		200.000	MHz	
Operating Temperature		0		+70	°C	See options
Storage Temperature		-55		+125	°C	
Overall Frequency Stability		-100		+100	ppm	See options
Supply Voltage (Vdd)		4.5	5.0	5.5	V	
Input Current	32.768kHz ~ 23.999MHz			30	mA	
	24.000MHz ~ 49.999MHz			45		
	50.000MHz ~ 79.999MHz			70		
	80.000MHz ~ 200.999MHz			85		
Symmetry (@ 1/2Vdd)	32.768kHz ~ 49.999MHz	45		55	%	See options
	50.000MHz ~ 200.000MHz	40		60		
Rise and Fall Time (Tr/Tf)	32.768kHz ~ 1.999MHz			40	ns	
	2.000MHz ~ 24.000MHz			10		
	24.001MHz ~ 200.000MHz			5		
Output Load	32.768kHz ~ 79.999MHz			15	pF	See options
				10	TTL	
	80.000MHz ~ 200.000MHz			15	pF	
				5	TTL	
Output Voltage	VOH	0.9*Vdd			V	
	VOL			0.1*Vdd	V	
Tri-state Function	VIH	2.2			V	"1" or Open: Oscillation
	VIL			0.8	V	"0": Output disable (Hi Z)
Output Enable time				4	ms	For option A only
Output Disable time				100	ns	For option A only
Start-up Time			1	10	ms	

* Overall frequency stability includes initial tolerance and temperature stability.

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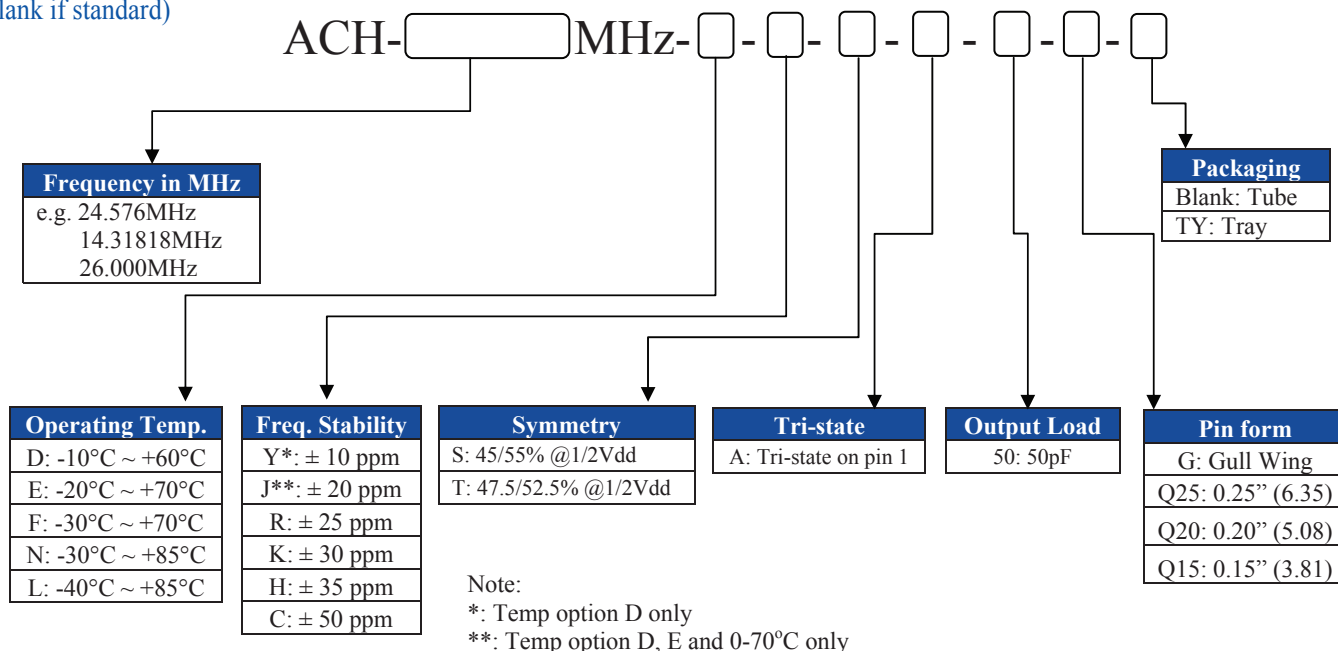
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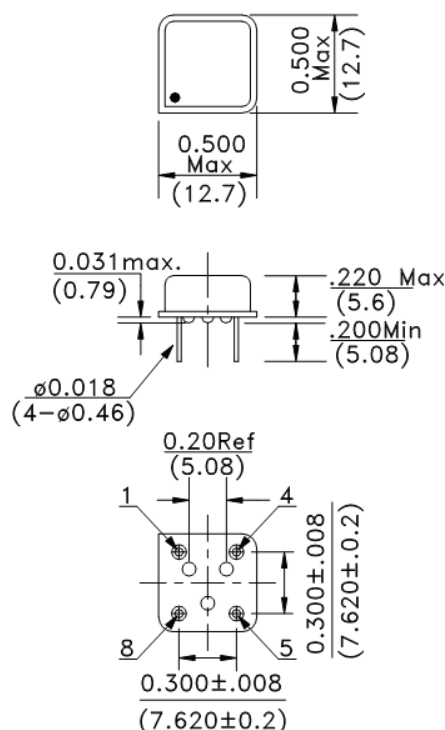
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OPTIONS & PART IDENTIFICATION:

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OUTLINE DIMENSION:



Pin	Function
1	Tri-State/NC
4	Case GND
5	Output
8	Vdd

Dimensions: inches (mm)

Packaging: 40pcs /tube

ATTENTION: Abracon products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications.

Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon is required. Please contact Abracon for more information.