TIGHT STABILITY INDUSTRIAL GRADE CRYSTAL OSCILLATOR



ASET SERIES

ESD Sensitive



3.2 x 2.5 x 1.2mm

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

• Highly reliable seam-sealed package

- Low current consumption 7mA
- Low phase noise and jitter
- Industrial grade tight temperature stability available (± 10 ppm / -40 to +85°C)
- Fast start-up time 0.2ms typical
- CMOS output with Tri-state function

STANDARD SPECIFICATIONS:

- Home networking by AC socket
- Wireless LAN
- Mobile communications
- PLC modem
- WiMax

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	4		54	MHz	
Standard Frequencies	5, 10, 12, 16, 20, 24, 26, 27, 32, 40, 44			MHz	
Operating Temperature	-40		+85	°C	
Storage Temperature	-40		+85	°C	
Overall Frequency Stability*	-15		+15	ppm	See options
Supply Voltage (Vdd)	+2.7	3.0	+3.3	V	See options
Supply Current (Idd)			7.0	mA	
Stand-by Current			10	uA	
Symmetry	45		55	%	@ 1/2Vdd
Rise and Fall Time (Tr/Tf)			5.0	ns	10%Vdd-90%Vdd
Output Load			15	pF	CMOS
Output Voltage (VOH)	0.9* Vdd			V	
Output Voltage (VOL)			0.1* Vdd	V	
Start-up Time		0.2	3.0	ms	
RMS Jitter		3.0		ps	
Tri-state function	"1" (VIH≥0.7*Vdd) or Open: Oscillation "0" (VIH<0.3*Vdd) : Hi Z				
Phase Noise (@10kHz offset)		-143		dBc/Hz	
Aging@+25°C	-2		+2	2022	First year
	-7		+7	ppm	10 years

* Overall frequency stability includes initial tolerance @ +25° C, and temperature stability

OPTIONS AND PART IDENTIFICATION:





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TIGHT STABILITY INDUSTRIAL GRADE CRYSTAL OSCILLATOR



ASET SERIES

RoHS/RoHS II compliant

3.2 x 2.5 x 1.2mm



TAPE & REEL: T= tape and reel (1,000 pcs/reel)



Need a test socket for the ASET Series? To view compatible PRECISION TEST & BURN-IN SOCKETS for these parts, click here. P/N: AXS-3225-04-05

ATTENTION: Abracon Corporation's 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 Corporation is required. Please contact Abracon Corporation for more information.





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