



Oscillators



ACH, ACHL and ACO Series Oscillators

Specifications: • **Frequency Stability:** $\pm 30\text{ppm}$; $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$ • **Operating Temperature:** $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$
Features: • HCMOS and TTL compatible

Dim. in mm.

Fig. 1

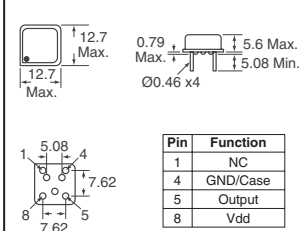


Fig. 2

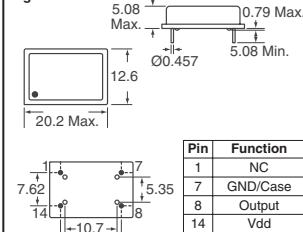


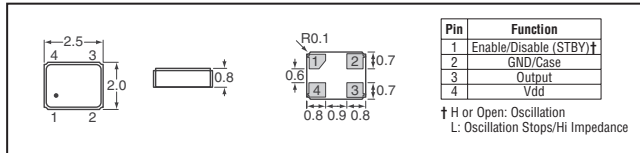
Fig.	Frequency (MHz)	Digi-Key Part No.	Price Each				Abracon Part No.
			1	10	100	500	
ACH Series Half Size Oscillators — 5.0V							
1	14.31818	535-9170-5-ND	1.82	1.56	1.04	.87	ACH-14.31818MHZ-EK
	40.00000	535-9180-5-ND	1.82	1.56	1.04	.87	ACH-40.000MHZ-EK
ACHL Series Half Size Oscillators — 3.3V							
1	3.68640	535-9197-5-ND	1.82	1.56	1.04	.87	ACHL-3.6864MHZ-EK
	32.00000	535-9195-5-ND	1.82	1.56	1.04	.87	ACHL-32.000MHZ-EK
ACOL Series Full Size Oscillators — 3.3V							
2	25.00000	535-9229-5-ND	1.82	1.56	1.04	.87	ACOL-25.000MHZ-EK
	50.00000	535-9237-5-ND	1.82	1.56	1.04	.87	ACOL-50.000MHZ-EK

ASD1 and ASD3 Series 2.5 x 2.0 SMD Oscillators

Specifications:
• Frequency Stability: $\pm 50\text{ppm}$ • **Operating Temperature:** $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$
Note: For nonstandard frequencies, please reference AP2S Series Programmable Oscillators.



Dim. in mm.



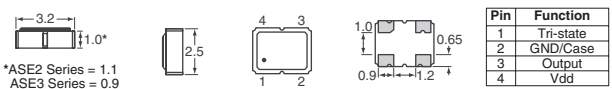
Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 1,000	Abrakon Part No.	
		1	10	50				100
ASD1 Series — 3.0V								
1.54400	535-9579-1-ND	6.19	5.37	4.71	3.72	535-9579-2-ND	2310.00	ASD1-1.544MHZ-ECT
3.68640	535-9580-1-ND	6.19	5.37	4.71	3.72	535-9580-2-ND	2310.00	ASD1-3.6864MHZ-ECT
4.00000	535-9581-1-ND	6.19	5.37	4.71	3.72	535-9581-2-ND	2310.00	ASD1-4.000MHZ-ECT
7.37280	535-9582-1-ND	6.19	5.37	4.71	3.72	535-9582-2-ND	2310.00	ASD1-7.3728MHZ-ECT
8.00000	535-9583-1-ND	6.19	5.37	4.71	3.72	535-9583-2-ND	2310.00	ASD1-8.000MHZ-ECT
10.00000	535-9584-1-ND	6.19	5.37	4.71	3.72	535-9584-2-ND	2310.00	ASD1-10.000MHZ-ECT
11.05920	535-9585-1-ND	6.19	5.37	4.71	3.72	535-9585-2-ND	2310.00	ASD1-11.0592MHZ-ECT
12.00000	535-9586-1-ND	6.19	5.37	4.71	3.72	535-9586-2-ND	2310.00	ASD1-12.000MHZ-ECT
14.31818	535-9587-1-ND	6.19	5.37	4.71	3.72	535-9587-2-ND	2310.00	ASD1-14.31818MHZ-ECT
14.74560	535-9588-1-ND	6.19	5.37	4.71	3.72	535-9588-2-ND	2310.00	ASD1-14.7456MHZ-ECT
18.43200	535-9589-1-ND	6.19	5.37	4.71	3.72	535-9589-2-ND	2310.00	ASD1-18.432MHZ-ECT
20.00000	535-9590-1-ND	6.19	5.37	4.71	3.72	535-9590-2-ND	2310.00	ASD1-20.000MHZ-ECT
24.00000	535-9591-1-ND	6.19	5.37	4.71	3.72	535-9591-2-ND	2310.00	ASD1-24.000MHZ-ECT
24.57600	535-9592-1-ND	6.19	5.37	4.71	3.72	535-9592-2-ND	2310.00	ASD1-24.576MHZ-ECT
25.00000	535-9593-1-ND	6.19	5.37	4.71	3.72	535-9593-2-ND	2310.00	ASD1-25.000MHZ-ECT
27.00000	535-9594-1-ND	6.19	5.37	4.71	3.72	535-9594-2-ND	2310.00	ASD1-27.000MHZ-ECT
30.00000	535-9595-1-ND	6.19	5.37	4.71	3.72	535-9595-2-ND	2310.00	ASD1-30.000MHZ-ECT
32.00000	535-9596-1-ND	6.19	5.37	4.71	3.72	535-9596-2-ND	2310.00	ASD1-32.000MHZ-ECT
33.00000	535-9597-1-ND	6.19	5.37	4.71	3.72	535-9597-2-ND	2310.00	ASD1-33.000MHZ-ECT
33.33300	535-9598-1-ND	6.19	5.37	4.71	3.72	535-9598-2-ND	2310.00	ASD1-33.333MHZ-ECT
40.00000	535-9599-1-ND	6.19	5.37	4.71	3.72	535-9599-2-ND	2310.00	ASD1-40.000MHZ-ECT
48.00000	535-9600-1-ND	6.19	5.37	4.71	3.72	535-9600-2-ND	2310.00	ASD1-48.000MHZ-ECT
50.00000	535-9601-1-ND	6.19	5.37	4.71	3.72	535-9601-2-ND	2310.00	ASD1-50.000MHZ-ECT
60.00000	535-9602-1-ND	6.19	5.37	4.71	3.72	535-9602-2-ND	2310.00	ASD1-60.000MHZ-ECT
ASD3 Series — 1.8V								
14.31818	535-9603-1-ND	6.19	5.37	4.71	3.72	535-9603-2-ND	2310.00	ASD3-14.31818MHZ-ECT
20.00000	535-9604-1-ND	6.19	5.37	4.71	3.72	535-9604-2-ND	2310.00	ASD3-20.000MHZ-ECT

Frequency (MHz)	Digi-Key Part No.	Cut Price Each					Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
		1	10	50	100				
24.00000	535-9605-1-ND	6.19	5.37	4.71	3.72	535-9605-2-ND	2310.00	ASD3-24.000MHZ-ECT	
24.57600	535-9606-1-ND	6.19	5.37	4.71	3.72	535-9606-2-ND	2310.00	ASD3-24.576MHZ-ECT	
25.00000	535-9607-1-ND	6.19	5.37	4.71	3.72	535-9607-2-ND	2310.00	ASD3-25.000MHZ-ECT	
27.00000	535-9608-1-ND	6.19	5.37	4.71	3.72	535-9608-2-ND	2310.00	ASD3-27.000MHZ-ECT	
29.49120	535-9609-1-ND	6.19	5.37	4.71	3.72	535-9609-2-ND	2310.00	ASD3-29.4912MHZ-ECT	
40.00000	535-9610-1-ND	6.19	5.37	4.71	3.72	535-9610-2-ND	2310.00	ASD3-40.000MHZ-ECT	
50.00000	535-9611-1-ND	6.19	5.37	4.71	3.72	535-9611-2-ND	2310.00	ASD3-50.000MHZ-ECT	

ASE, ASE2 and ASE3 Series 3.2 x 2.5 SMD Oscillators



Dim. in mm.



*ASE2 Series = 1.1
ASE3 Series = 0.9

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
		1	50	100	1000			
ASE-xxxMHZ-LC-T Series — 3.3V, ±50ppm, -40°C ~ 85°C								
1.84320	535-9555-1-ND	3.71	3.22	2.83	2.23	535-9555-2-ND	1386.00	ASE-1.8432MHZ-LC-T
4.00000	535-9556-1-ND	3.71	3.22	2.83	2.23	535-9556-2-ND	1386.00	ASE-4.000MHZ-LC-T
7.37280	535-9557-1-ND	3.71	3.22	2.83	2.23	535-9557-2-ND	1386.00	ASE-7.3728MHZ-LC-T
8.00000	535-9558-1-ND	3.71	3.22	2.83	2.23	535-9558-2-ND	1386.00	ASE-8.000MHZ-LC-T
10.00000	535-9559-1-ND	3.71	3.22	2.83	2.23	535-9559-2-ND	1386.00	ASE-10.000MHZ-LC-T
11.05920	535-9560-1-ND	3.71	3.22	2.83	2.23	535-9560-2-ND	1386.00	ASE-11.0592MHZ-LC-T
12.00000	535-9561-1-ND	3.71	3.22	2.83	2.23	535-9561-2-ND	1386.00	ASE-12.000MHZ-LC-T
14.31818	535-9562-1-ND	3.71	3.22	2.83	2.23	535-9562-2-ND	1386.00	ASE-14.3181MHZ-LC-T
14.74560	535-9563-1-ND	3.71	3.22	2.83	2.23	535-9563-2-ND	1386.00	ASE-14.7456MHZ-LC-T
18.43200	535-9564-1-ND	3.71	3.22	2.83	2.23	535-9564-2-ND	1386.00	ASE-18.432MHZ-LC-T
20.00000	535-9565-1-ND	3.71	3.22	2.83	2.23	535-9565-2-ND	1386.00	ASE-20.000MHZ-LC-T
24.00000	535-9566-1-ND	3.71	3.22	2.83	2.23	535-9566-2-ND	1386.00	ASE-24.000MHZ-LC-T
24.57600	535-9567-1-ND	3.71	3.22	2.83	2.23	535-9567-2-ND	1386.00	ASE-24.576MHZ-LC-T
25.00000	535-9568-1-ND	3.71	3.22	2.83	2.23	535-9568-2-ND	1386.00	ASE-25.000MHZ-LC-T
27.00000	535-9569-1-ND	3.71	3.22	2.83	2.23	535-9569-2-ND	1386.00	ASE-27.000MHZ-LC-T
29.49120	535-9570-1-ND	3.71	3.22	2.83	2.23	535-9570-2-ND	1386.00	ASE-29.4912MHZ-LC-T
30.00000	535-9571-1-ND	3.71	3.22	2.83	2.23	535-9571-2-ND	1386.00	ASE-30.000MHZ-LC-T
32.00000	535-9572-1-ND	3.71	3.22	2.83	2.23	535-9572-2-ND	1386.00	ASE-32.000MHZ-LC-T
33.00000	535-9573-1-ND	3.71	3.22	2.83	2.23	535-9573-2-ND	1386.00	ASE-33.000MHZ-LC-T
33.33300	535-9574-1-ND	3.71	3.22	2.83	2.23	535-9574-2-ND	1386.00	ASE-33.333MHZ-LC-T
44.00000	535-9575-1-ND	3.71	3.22	2.83	2.23	535-9575-2-ND	1386.00	ASE-44.000MHZ-LC-T
48.00000	535-9576-1-ND	3.71	3.22	2.83	2.23	535-9576-2-ND	1386.00	ASE-48.000MHZ-LC-T
50.00000	535-9577-1-ND	3.71	3.22	2.83	2.23	535-9577-2-ND	1386.00	ASE-50.000MHZ-LC-T
60.00000	535-9578-1-ND	3.71	3.22	2.83	2.23	535-9578-2-ND	1386.00	ASE-60.000MHZ-LC-T
NEW! ASE-xxxMHZ-E-T Series — 3.3V, ±100ppm, -20°C ~ 70°C NEW!								
12.50000	535-9981-1-ND	2.40	2.08	1.83	1.44	535-9981-2-ND	896.00	ASE-12.500MHZ-ET
13.50000	535-9982-1-ND	2.40	2.08	1.83	1.44	535-9982-2-ND	896.00	ASE-13.500MHZ-ET
20.00000	535-9983-1-ND	2.40	2.08	1.83	1.44	535-9983-2-ND	896.00	ASE-20.000MHZ-ET
22.00000	535-9984-1-ND	2.40	2.08	1.83	1.44	535-9984-2-ND	896.00	ASE-22.000MHZ-ET
24.00000	535-9985-1-ND	2.40	2.08	1.83	1.44	535-9985-2-ND	896.00	ASE-24.000MHZ-ET
24.57600	535-9986-1-ND	2.40	2.08	1.83	1.44	535-9986-2-ND	896.00	ASE-24.576MHZ-ET
25.00000	535-9987-1-ND	2.40	2.08	1.83	1.44	535-9987-2-ND	896.00	ASE-25.000MHZ-ET
27.00000	535-9988-1-ND	2.40	2.08	1.83	1.44	535-9988-2-ND	896.00	ASE-27.000MHZ-ET
30.00000	535-9989-1-ND	2.40	2.08	1.83	1.44	535-9989-2-ND	896.00	ASE-30.000MHZ-ET
32.00000	535-9990-1-ND	2.40	2.08	1.83	1.44	535-9990-2-ND	896.00	ASE-32.000MHZ-ET
33.00000	535-9991-1-ND	2.40	2.08	1.83	1.44	535-9991-2-ND	896.00	ASE-33.000MHZ-ET
33.33300	535-9992-1-ND	2.40	2.08	1.83	1.44	535-9992-2-ND	896.00	ASE-33.333MHZ-ET
40.00000	535-9993-1-ND	2.40	2.08	1.83	1.44	535-9993-2-ND	896.00	ASE-40.000MHZ-ET
44.00000	535-9994-1-ND	2.40	2.08	1.83	1.44	535-9994-2-ND	896.00	ASE-44.000MHZ-E-T
48.00000	535-9995-1-ND	2.40	2.08	1.83	1.44	535-9995-2-ND	896.00	ASE-48.000MHZ-ET
50.00000	535-9996-1-ND	2.40	2.08	1.83	1.44	535-9996-2-ND	896.00	ASE-50.000MHZ-ET
60.00000	535-9997-1-ND	2.40	2.08	1.83	1.44	535-9997-2-ND	896.00	ASE-60.000MHZ-ET

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

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