

Specifications: • Frequency: 32.768kHz • Frequency Tolerance: ±20ppm

Fig.	Load Cap. (pF)	Operating Temperature (°C)	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel†		Abracon Part No.
				1	10	50	Qty.	Pricing	
Through Hole Tuning Fork Crystals									
1	12.5	-20 ~ 70	535-9031-ND‡	.54	.46	.42	—	—	AB15T-32.768KHZ
	12.5	-10 ~ 60	535-9032-ND‡	.18	.16	.14	—	—	AB26T-32.768KHZ
	12.5	-10 ~ 60	535-9034-ND‡	.18	.16	.14	—	—	AB38T-32.768KHZ
Surface Mount Tuning Fork Crystals									
2	12.5	-40 ~ 85	535-9033-1-ND	.44	.37	.28	2,000	172.79/M	AB26TRB-32.768KHZ-T
3	12.5	-40 ~ 85	535-9165-1-ND	.94	.81	.61	3,000	376.07/M	ABS13-32.768KHZ-T
4	12.5	-40 ~ 85	535-9166-1-ND	.61	.53	.40	3,000	243.94/M	ABS25-32.768KHZ-T
5	12.5	-40 ~ 85	535-9536-1-ND	.76	.66	.49	3,000	304.92/M	ABS10-32.768KHZ-T
	7.0	-40 ~ 85	535-9537-1-ND	.76	.66	.49	3,000	304.92/M	ABS10-32.768KHZ-7-T
	9.0	-40 ~ 85	535-9538-1-ND	.76	.66	.49	3,000	304.92/M	ABS10-32.768KHZ-9-T
	12.5	-40 ~ 85	535-9539-1-ND	.89	.77	.58	3,000	355.74/M	ABS09-32.768KHZ-T
	7.0	-40 ~ 85	535-9540-1-ND	.89	.77	.58	3,000	355.74/M	ABS09-32.768KHZ-7-T
	9.0	-40 ~ 85	535-9541-1-ND	.89	.77	.58	3,000	355.74/M	ABS09-32.768KHZ-9-T
	12.5	-40 ~ 85	535-9542-1-ND	1.07	.92	.69	3,000	426.89/M	ABS07-32.768KHZ-T
	7.0	-40 ~ 85	535-9543-1-ND	1.07	.92	.69	3,000	426.89/M	ABS07-32.768KHZ-7-T
	9.0	-40 ~ 85	535-9544-1-ND	1.07	.92	.69	3,000	426.89/M	ABS07-32.768KHZ-9-T

Specifications: • Frequency: 32.768kHz • Operating Temperature: -40°C ~ 85°C

Fig.	Supply Voltage (V)	Frequency Stability (ppm)	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel†		Abracon Part No.
				1	10	50	Qty.	Pricing	
32.768kHz Surface Mount Oscillators									
6	3.3	±20	535-9545-1-ND	2.80	2.40	1.80	1,000	1118.04	ASVK-32.768KHZ-LJT
7	3.3	±20	535-9546-1-ND	3.18	2.73	2.05	1,000	1270.50	ASFLK-32.768KHZ-LJT
8	3.3	-140 ~ 10	535-9717-1-ND	3.18	2.73	2.05	1,000	1270.50	ASHK4-32.768KHZ-LT
	1.8	-140 ~ 10	535-9718-1-ND	3.18	2.73	2.05	1,000	1270.50	ASHK4-32.768KHZ-LT
8	1.8	-140 ~ 0	535-9719-1-ND	3.18	2.73	2.05	1,000	1270.50	ASHK5-32.768KHZ-LT
	1.5	-140 ~ 0	535-9719-1-ND	3.18	2.73	2.05	1,000	1270.50	ASHK5-32.768KHZ-LT

† For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bulk Pricing

Fig. 1

Dim.	A	B (Max.)	C	D	E
AB15T	ø1.4	5.1	4.3 (Typ.)	0.45	ø0.2
AB26T	ø2.1	6.2	9.0 (Min.)	0.80	ø0.26
AB38T	ø3.2	8.3	9.0 (Min.)	1.10	ø0.35

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Dim.	L	W	H
ABS10	4.9	1.8	1.0
ABS09	4.1	1.5	0.9
ABS07	3.2	1.5	0.9

Fig. 6

Pin	Function
1	Tri-state or NC
2	GND
3	Output
4	Vcc

Fig. 7

Pin	Function
1	E/D
2	GND
3	Output
4	Vcc

Fig. 8

Pin	Function
1	Tri-state
2	GND
3	Output
4	Vcc

Oscillators

ACH and ACO Series Oscillators

Specifications: • Frequency Stability: ±30ppm; -20°C ~ 70°C • Operating Temperature: -20°C ~ 70°C

Features: • HCMOS and TTL compatible

Fig. 1

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

Fig. 2

Pin	Function
1	NC
7	GND/Case
8	Output
14	Vdd

Fig.	Frequency (MHz)	Digi-Key Part No.	1	Price Each	100	500	Abracon Part No.
ACH Series Half Size Oscillators — 5.0V							
1	14.31818	535-9170-5-ND	.94	.85	.68	.61	ACH-14.31818MHZ-EK
	40.00000	535-9180-5-ND	.94	.85	.68	.61	ACH-40.000MHZ-EK
ACHL Series Half Size Oscillators — 3.3V							
1	3.68640	535-9197-5-ND	.94	.85	.68	.61	ACHL-3.6864MHZ-EK
	32.00000	535-9195-5-ND	.94	.85	.68	.61	ACHL-32.000MHZ-EK
ACO Series Full Size Oscillators — 5.0V							
2	4.00000	535-9218-5-ND	.94	.85	.68	.61	ACO-4.000MHZ-EK
	14.31818	535-9206-5-ND	.94	.85	.68	.61	ACO-14.31818MHZ-EK
ACOL Series Full Size Oscillators — 3.3V							
2	25.00000	535-9229-5-ND	.94	.85	.68	.61	ACOL-25.000MHZ-EK
	50.00000	535-9237-5-ND	.94	.85	.68	.61	ACOL-50.000MHZ-EK

ASD Series 2.5 x 2.0 SMD Oscillators

Specifications: • Frequency Stability: ±50ppm • Operating Temperature: -20°C ~ 70°C

Note: For nonstandard frequencies, please reference AP2S Series Programmable Oscillators.

Pin	Function
1	Enable/Disable (STBY)*
2	GND/Case
3	Output
4	Vdd

* H or Open = Oscillation
L = Oscillation stops/Hi impedance

Frequency (MHz)	Digi-Key Part No.	1	Price Each	100	500	Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
ASD1 Series — 3.0V								
1.54400	535-9579-1-ND	4.20	3.60	2.70	2.40	535-9579-2-ND	1677.06	ASD1-1.544MHZ-ECT
3.68640	535-9580-1-ND	4.20	3.60	2.70	2.40	535-9580-2-ND	1677.06	ASD1-3.6864MHZ-ECT
4.00000	535-9581-1-ND	4.20	3.60	2.70	2.40	535-9581-2-ND	1677.06	ASD1-4.000MHZ-ECT
7.37280	535-9582-1-ND	4.20	3.60	2.70	2.40	535-9582-2-ND	1677.06	ASD1-7.3728MHZ-ECT
8.00000	535-9583-1-ND	4.20	3.60	2.70	2.40	535-9583-2-ND	1677.06	ASD1-8.000MHZ-ECT
10.00000	535-9584-1-ND	4.20	3.60	2.70	2.40	535-9584-2-ND	1677.06	ASD1-10.000MHZ-ECT
11.05920	535-9585-1-ND	4.20	3.60	2.70	2.40	535-9585-2-ND	1677.06	ASD1-11.0592MHZ-ECT
12.00000	535-9586-1-ND	4.20	3.60	2.70	2.40	535-9586-2-ND	1677.06	ASD1-12.000MHZ-ECT
14.31818	535-9587-1-ND	4.20	3.60	2.70	2.40	535-9587-2-ND	1677.06	ASD1-14.31818MHZ-ECT
14.74560	535-9588-1-ND	4.20	3.60	2.70	2.40	535-9588-2-ND	1677.06	ASD1-14.7456MHZ-ECT
18.43200	535-9589-1-ND	4.20	3.60	2.70	2.40	535-9589-2-ND	1677.06	ASD1-18.432MHZ-ECT
20.00000	535-9590-1-ND	4.20	3.60	2.70	2.40	535-9590-2-ND	1677.06	ASD1-20.000MHZ-ECT
24.00000	535-9591-1-ND	4.20	3.60	2.70	2.40	535-9591-2-ND	1677.06	ASD1-24.000MHZ-ECT
24.57600	535-9592-1-ND	4.20	3.60	2.70	2.40	535-9592-2-ND	1677.06	ASD1-24.576MHZ-ECT
25.00000	535-9593-1-ND	4.20	3.60	2.70	2.40	535-9593-2-ND	1677.06	ASD1-25.000MHZ-ECT
27.00000	535-9594-1-ND	4.20	3.60	2.70	2.40	535-9594-2-ND	1677.06	ASD1-27.000MHZ-ECT
30.00000	535-9595-1-ND	4.20	3.60	2.70	2.40	535-9595-2-ND	1677.06	ASD1-30.000MHZ-ECT
32.00000	535-9596-1-ND	4.20	3.60	2.70	2.40	535-9596-2-ND	1677.06	ASD1-32.000MHZ-ECT
33.00000	535-9597-1-ND	4.20	3.60	2.70	2.40	535-9597-2-ND	1677.06	ASD1-33.000MHZ-ECT

(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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ASD Series 2.5 x 2.0 SMD Oscillators (Cont.)

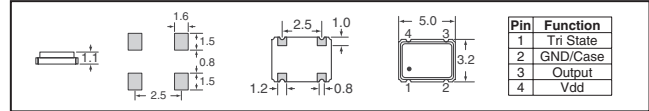


Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
		1	50	100	1000			
33.33300	535-9598-1-ND	4.20	3.60	2.70	2.40	535-9598-2-ND	1677.06	ASD1-33.333MHz-ECT
40.00000	535-9599-1-ND	4.20	3.60	2.70	2.40	535-9599-2-ND	1677.06	ASD1-40.000MHz-ECT
48.00000	535-9600-1-ND	4.20	3.60	2.70	2.40	535-9600-2-ND	1677.06	ASD1-48.000MHz-ECT
50.00000	535-9601-1-ND	4.20	3.60	2.70	2.40	535-9601-2-ND	1677.06	ASD1-50.000MHz-ECT
60.00000	535-9602-1-ND	4.20	3.60	2.70	2.40	535-9602-2-ND	1677.06	ASD1-60.000MHz-ECT
ASD3 Series — 1.8V								
14.31818	535-9603-1-ND	4.20	3.60	2.70	2.40	535-9603-2-ND	1677.06	ASD3-14.31818MHz-ECT
20.00000	535-9604-1-ND	4.20	3.60	2.70	2.40	535-9604-2-ND	1677.06	ASD3-20.000MHz-ECT
24.00000	535-9605-1-ND	4.20	3.60	2.70	2.40	535-9605-2-ND	1677.06	ASD3-24.000MHz-ECT
24.57600	535-9606-1-ND	4.20	3.60	2.70	2.40	535-9606-2-ND	1677.06	ASD3-24.576MHz-ECT
25.00000	535-9607-1-ND	4.20	3.60	2.70	2.40	535-9607-2-ND	1677.06	ASD3-25.000MHz-ECT
27.00000	535-9608-1-ND	4.20	3.60	2.70	2.40	535-9608-2-ND	1677.06	ASD3-27.000MHz-ECT
29.49120	535-9609-1-ND	4.20	3.60	2.70	2.40	535-9609-2-ND	1677.06	ASD3-29.4912MHz-ECT
40.00000	535-9610-1-ND	4.20	3.60	2.70	2.40	535-9610-2-ND	1677.06	ASD3-40.000MHz-ECT
50.00000	535-9611-1-ND	4.20	3.60	2.70	2.40	535-9611-2-ND	1677.06	ASD3-50.000MHz-ECT

ASFL1 Series 5.0 x 3.2 SMD Oscillators



Specifications:
 • Frequency Stability: EC: ±50ppm; 20°C - 70°C; EK: ±30ppm; 20°C - 70°C • Operating Temperature: -20°C - 70°C • Supply Voltage: 3.3V ± 10% Features: • Seam sealed package
 Dim. in mm.



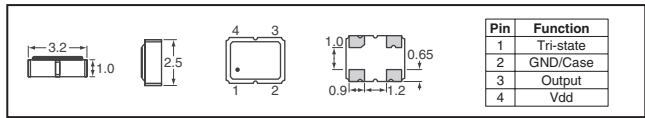
Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
		1	100	500	1000			
1.84320	300-8237-1-ND	3.16	2.85	2.37	1.90	300-8237-2-ND	1473.78	ASFL1-1.8432MHz-EC-T
1.84320	535-9258-1-ND	2.16	1.95	1.62	1.30	535-9258-2-ND	1078.11	ASFL1-1.8432MHz-EK-T
3.68640	300-8238-1-ND	3.16	2.85	2.37	1.90	300-8238-2-ND	1473.78	ASFL1-3.6864MHz-EC-T
3.68640	535-9268-1-ND	2.16	1.95	1.62	1.30	535-9268-2-ND	1078.11	ASFL1-3.6864MHz-EK-T
4.00000	300-8239-1-ND	3.16	2.85	2.37	1.90	300-8239-2-ND	1473.78	ASFL1-4.000MHz-EC-T
4.00000	535-9271-1-ND	2.16	1.95	1.62	1.30	535-9271-2-ND	1078.11	ASFL1-4.000MHz-EK-T
7.37280	300-8240-1-ND	3.16	2.85	2.37	1.90	300-8240-2-ND	1473.78	ASFL1-7.3728MHz-EC-T
7.37280	535-9273-1-ND	2.16	1.95	1.62	1.30	535-9273-2-ND	1078.11	ASFL1-7.3728MHz-EK-T
8.00000	300-8241-1-ND	3.16	2.85	2.37	1.90	300-8241-2-ND	1473.78	ASFL1-8.000MHz-EC-T
8.00000	535-9274-1-ND	2.16	1.95	1.62	1.30	535-9274-2-ND	1078.11	ASFL1-8.000MHz-EK-T
10.00000	300-8242-1-ND	3.16	2.85	2.37	1.90	300-8242-2-ND	1473.78	ASFL1-10.000MHz-EC-T
10.00000	535-9251-1-ND	2.16	1.95	1.62	1.30	535-9251-2-ND	1078.11	ASFL1-10.000MHz-EK-T
11.05920	300-8243-1-ND	3.16	2.85	2.37	1.90	300-8243-2-ND	1473.78	ASFL1-11.0592MHz-EC-T
11.05920	535-9252-1-ND	2.16	1.95	1.62	1.30	535-9252-2-ND	1078.11	ASFL1-11.0592MHz-EK-T
12.00000	300-8244-1-ND	3.16	2.85	2.37	1.90	300-8244-2-ND	1473.78	ASFL1-12.000MHz-EC-T
12.00000	535-9253-1-ND	2.16	1.95	1.62	1.30	535-9253-2-ND	1078.11	ASFL1-12.000MHz-EK-T
12.28800	300-8245-1-ND	3.16	2.85	2.37	1.90	300-8245-2-ND	1473.78	ASFL1-12.288MHz-EC-T
14.31818	300-8246-1-ND	3.16	2.85	2.37	1.90	300-8246-2-ND	1473.78	ASFL1-14.31818MHz-EC-T
14.31818	535-9254-1-ND	2.16	1.95	1.62	1.30	535-9254-2-ND	1078.11	ASFL1-14.31818MHz-EK-T
14.74560	300-8247-1-ND	3.16	2.85	2.37	1.90	300-8247-2-ND	1473.78	ASFL1-14.7456MHz-EC-T
14.74560	535-9255-1-ND	2.16	1.95	1.62	1.30	535-9255-2-ND	1078.11	ASFL1-14.7456MHz-EK-T
16.00000	300-8248-1-ND	3.16	2.85	2.37	1.90	300-8248-2-ND	1473.78	ASFL1-16.000MHz-EC-T
16.00000	535-9256-1-ND	2.16	1.95	1.62	1.30	535-9256-2-ND	1078.11	ASFL1-16.000MHz-EK-T
16.38400	300-8249-1-ND	3.16	2.85	2.37	1.90	300-8249-2-ND	1473.78	ASFL1-16.384MHz-EC-T
18.43200	300-8250-1-ND	3.16	2.85	2.37	1.90	300-8250-2-ND	1473.78	ASFL1-18.432MHz-EC-T
18.43200	535-9257-1-ND	2.16	1.95	1.62	1.30	535-9257-2-ND	1078.11	ASFL1-18.432MHz-EK-T
20.00000	300-8251-1-ND	3.16	2.85	2.37	1.90	300-8251-2-ND	1473.78	ASFL1-20.000MHz-EC-T
20.00000	535-9259-1-ND	2.16	1.95	1.62	1.30	535-9259-2-ND	1078.11	ASFL1-20.000MHz-EK-T
24.00000	300-8252-1-ND	3.16	2.85	2.37	1.90	300-8252-2-ND	1473.78	ASFL1-24.000MHz-EC-T
24.00000	535-9260-1-ND	2.16	1.95	1.62	1.30	535-9260-2-ND	1078.11	ASFL1-24.000MHz-EK-T
24.57600	300-8253-1-ND	3.16	2.85	2.37	1.90	300-8253-2-ND	1473.78	ASFL1-24.576MHz-EC-T
24.57600	535-9261-1-ND	2.16	1.95	1.62	1.30	535-9261-2-ND	1078.11	ASFL1-24.576MHz-EK-T
25.00000	300-8254-1-ND	3.16	2.85	2.37	1.90	300-8254-2-ND	1473.78	ASFL1-25.000MHz-EC-T
25.00000	535-9262-1-ND	2.16	1.95	1.62	1.30	535-9262-2-ND	1078.11	ASFL1-25.000MHz-EK-T
27.00000	300-8255-1-ND	3.16	2.85	2.37	1.90	300-8255-2-ND	1473.78	ASFL1-27.000MHz-EC-T
27.00000	535-9263-1-ND	2.16	1.95	1.62	1.30	535-9263-2-ND	1078.11	ASFL1-27.000MHz-EK-T
29.49120	300-8256-1-ND	3.16	2.85	2.37	1.90	300-8256-2-ND	1473.78	ASFL1-29.4912MHz-EC-T
30.00000	300-8257-1-ND	3.16	2.85	2.37	1.90	300-8257-2-ND	1473.78	ASFL1-30.000MHz-EC-T
30.00000	535-9264-1-ND	2.16	1.95	1.62	1.30	535-9264-2-ND	1078.11	ASFL1-30.000MHz-EK-T
32.00000	300-8258-1-ND	3.16	2.85	2.37	1.90	300-8258-2-ND	1473.78	ASFL1-32.000MHz-EC-T
32.00000	535-9265-1-ND	2.16	1.95	1.62	1.30	535-9265-2-ND	1078.11	ASFL1-32.000MHz-EK-T
32.76800	300-8259-1-ND	3.16	2.85	2.37	1.90	300-8259-2-ND	1473.78	ASFL1-32.768MHz-EC-T
33.00000	535-9266-1-ND	2.16	1.95	1.62	1.30	535-9266-2-ND	1078.11	ASFL1-33.000MHz-EK-T
33.33300	300-8260-1-ND	3.16	2.85	2.37	1.90	300-8260-2-ND	1473.78	ASFL1-33.333MHz-EC-T
33.33300	535-9267-1-ND	2.16	1.95	1.62	1.30	535-9267-2-ND	1078.11	ASFL1-33.333MHz-EK-T
35.32800	300-8261-1-ND	3.16	2.85	2.37	1.90	300-8261-2-ND	1473.78	ASFL1-35.328MHz-EC-T
40.00000	300-8262-1-ND	3.16	2.85	2.37	1.90	300-8262-2-ND	1473.78	ASFL1-40.000MHz-EC-T
40.00000	535-9269-1-ND	2.16	1.95	1.62	1.30	535-9269-2-ND	1078.11	ASFL1-40.000MHz-EK-T
48.00000	300-8263-1-ND	3.16	2.85	2.37	1.90	300-8263-2-ND	1473.78	ASFL1-48.000MHz-EC-T
48.00000	535-9270-1-ND	2.16	1.95	1.62	1.30	535-9270-2-ND	1078.11	ASFL1-48.000MHz-EK-T
50.00000	300-8264-1-ND	3.16	2.85	2.37	1.90	300-8264-2-ND	1473.78	ASFL1-50.000MHz-EC-T
50.00000	535-9272-1-ND	2.16	1.95	1.62	1.30	535-9272-2-ND	1078.11	ASFL1-50.000MHz-EK-T
60.00000	300-8265-1-ND	3.16	2.85	2.37	1.90	300-8265-2-ND	1473.78	ASFL1-60.000MHz-EC-T
64.00000	300-8266-1-ND	3.16	2.85	2.37	1.90	300-8266-2-ND	1473.78	ASFL1-64.000MHz-EC-T
66.66600	300-8267-1-ND	3.16	2.85	2.37	1.90	300-8267-2-ND	1473.78	ASFL1-66.666MHz-EC-T
75.00000	300-8268-1-ND	3.59	3.24	2.70	2.16	300-8268-2-ND	1677.06	ASFL1-75.000MHz-EC-T
80.00000	300-8269-1-ND	3.59	3.24	2.70	2.16	300-8269-2-ND	1677.06	ASFL1-80.000MHz-EC-T
100.00000	300-8270-1-ND	3.59	3.24	2.70	2.16	300-8270-2-ND	1677.06	ASFL1-100.000MHz-EC-T
106.25000	300-8271-1-ND	3.59	3.24	2.70	2.16	300-8271-2-ND	1677.06	ASFL1-106.250MHz-EC-T
125.00000	300-8272-1-ND	3.59	3.24	2.70	2.16	300-8272-2-ND	1677.06	ASFL1-125.000MHz-EC-T
133.33000	300-8273-1-ND	3.59	3.24	2.70	2.16	300-8273-2-ND	1677.06	ASFL1-133.330MHz-EC-T

(Continued)

ASE Series 3.2 x 2.5 SMD Oscillators



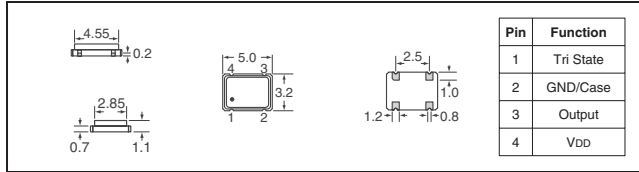
Specifications:
 • Frequency Stability: ±50ppm • Operating Temperature: -40°C - 85°C • Supply Voltage: 3.3Vdc ±5%
 Note: For nonstandard frequencies, please reference AP3S or ASEP Series Programmable Oscillators. Dim. in mm.



Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
		1	50	100	1000			
1.84320	535-9555-1-ND	2.52	2.16	1.62	1.44	535-9555-2-ND	1006.24	ASE-1.8432MHz-LC-T
4.00000	535-9556-1-ND	2.52	2.16	1.62	1.44	535-9556-2-ND	1006.24	ASE-4.000MHz-LC-T
7.37280	535-9557-1-ND	2.52	2.16	1.62	1.44	535-9557-2-ND	1006.24	ASE-7.3728MHz-LC-T
8.00000	535-9558-1-ND	2.52	2.16	1.62	1.44	535-9558-2-ND	1006.24	ASE-8.000MHz-LC-T
10.00000	535-9559-1-ND	2.52	2.16	1.62	1.44	535-9559-2-ND	1006.24	ASE-10.000MHz-LC-T
11.05920	535-9560-1-ND	2.52	2.16	1.62	1.44	535-9560-2-ND	1006.24	ASE-11.0592MHz-LC-T
12.00000	535-9561-1-ND	2.52	2.16	1.62	1.44	535-9561-2-ND	1006.24	ASE-12.000MHz-LC-T
14.31818	535-9562-1-ND	2.52	2.16	1.62	1.44	535-9562-2-ND	1006.24	ASE-14.31818MHz-LC-T
14.74560	535-9563-1-ND	2.52	2.16	1.62	1.44	535-9563-2-ND	1006.24	ASE-14.7456MHz-LC

ASFL3 Series
5.0 x 3.2 SMD Oscillators

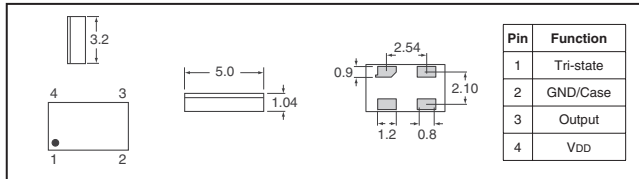
Specifications: • Frequency Tolerance: ±30ppm • Operating Temperature: -20°C - 70°C • Load Capacitance: 15.0pF
• Supply Voltage: 1.8V ±10% **Features:** • Low current consumption • Tri-State output
Dim. in mm.



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			
1.84320	535-9407-1-ND	2.69	2.52	2.16	1.62	535-9407-2-ND	1006.24	ASFL3-1.8432MHZ-EK-T
3.68640	535-9408-1-ND	2.69	2.52	2.16	1.62	535-9408-2-ND	1006.24	ASFL3-3.6864MHZ-EK-T
4.00000	535-9409-1-ND	2.69	2.52	2.16	1.62	535-9409-2-ND	1006.24	ASFL3-4.0000MHZ-EK-T
8.00000	535-9410-1-ND	2.69	2.52	2.16	1.62	535-9410-2-ND	1006.24	ASFL3-8.0000MHZ-EK-T
10.00000	535-9411-1-ND	2.69	2.52	2.16	1.62	535-9411-2-ND	1006.24	ASFL3-10.0000MHZ-EK-T
11.05920	535-9412-1-ND	2.69	2.52	2.16	1.62	535-9412-2-ND	1006.24	ASFL3-11.0592MHZ-EK-T
12.00000	535-9413-1-ND	2.69	2.52	2.16	1.62	535-9413-2-ND	1006.24	ASFL3-12.0000MHZ-EK-T
14.31818	535-9414-1-ND	2.69	2.52	2.16	1.62	535-9414-2-ND	1006.24	ASFL3-14.31818MHZ-EK-T
16.00000	535-9415-1-ND	2.69	2.52	2.16	1.62	535-9415-2-ND	1006.24	ASFL3-16.0000MHZ-EK-T
20.00000	535-9416-1-ND	2.69	2.52	2.16	1.62	535-9416-2-ND	1006.24	ASFL3-20.0000MHZ-EK-T
24.00000	535-9417-1-ND	2.69	2.52	2.16	1.62	535-9417-2-ND	1006.24	ASFL3-24.0000MHZ-EK-T
24.57600	535-9418-1-ND	2.69	2.52	2.16	1.62	535-9418-2-ND	1006.24	ASFL3-24.5760MHZ-EK-T
25.00000	535-9419-1-ND	2.69	2.52	2.16	1.62	535-9419-2-ND	1006.24	ASFL3-25.0000MHZ-EK-T
27.00000	535-9420-1-ND	2.69	2.52	2.16	1.62	535-9420-2-ND	1006.24	ASFL3-27.0000MHZ-EK-T
30.00000	535-9421-1-ND	2.69	2.52	2.16	1.62	535-9421-2-ND	1006.24	ASFL3-30.0000MHZ-EK-T
32.00000	535-9422-1-ND	2.69	2.52	2.16	1.62	535-9422-2-ND	1006.24	ASFL3-32.0000MHZ-EK-T
32.76800	535-9423-1-ND	3.54	3.31	2.84	2.13	535-9423-2-ND	1321.32	ASFL3-32.7680MHZ-EK-T
40.00000	535-9424-1-ND	2.69	2.52	2.16	1.62	535-9424-2-ND	1006.24	ASFL3-40.0000MHZ-EK-T
48.00000	535-9425-1-ND	2.69	2.52	2.16	1.62	535-9425-2-ND	1006.24	ASFL3-48.0000MHZ-EK-T

ASFLM1 Series 5.0 x 3.2 SMD MEMS Oscillators

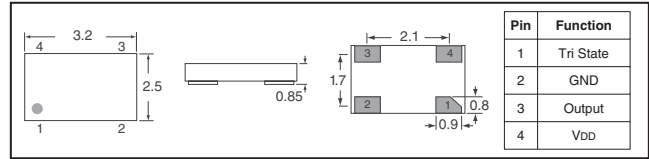
Specifications: • Frequency Tolerance: ±50ppm • Operating Temperature: 0°C - 70°C; L: 40°C - 85°C • Supply Voltage: 3.0VDC ±0.3V **Features:** • Ultra Miniature Pure Silicon™ Clock Oscillator, MEMS Technology by Disquera. • Suitable for high shock resistance, industrial/COTS military applications
Dim. in mm.



Frequency (MHz)	Digi-Key Part No.	Bulk Price Each				Abracon Part No.
		1	10	50	100	
1.84320	535-9649-5-ND	1.78	1.53	1.15	1.02	ASFLM1-1.8432MHZ-C
3.68640	535-9650-5-ND	1.78	1.53	1.15	1.02	ASFLM1-3.6864MHZ-C
4.00000	535-9651-5-ND	1.78	1.53	1.15	1.02	ASFLM1-4.0000MHZ-C
7.37280	535-9652-5-ND	1.78	1.53	1.15	1.02	ASFLM1-7.3728MHZ-C
8.00000	535-9653-5-ND	1.78	1.53	1.15	1.02	ASFLM1-8.0000MHZ-C
10.00000	535-9654-5-ND	1.78	1.53	1.15	1.02	ASFLM1-10.0000MHZ-C
11.05920	535-9655-5-ND	1.78	1.53	1.15	1.02	ASFLM1-11.0592MHZ-C
12.00000	535-9656-5-ND	1.78	1.53	1.15	1.02	ASFLM1-12.0000MHZ-C
14.31818	535-9657-5-ND	1.78	1.53	1.15	1.02	ASFLM1-14.31818MHZ-C
14.74560	535-9658-5-ND	1.78	1.53	1.15	1.02	ASFLM1-14.7456MHZ-C
16.00000	535-9659-5-ND	1.78	1.53	1.15	1.02	ASFLM1-16.0000MHZ-C
18.43200	535-9660-5-ND	1.78	1.53	1.15	1.02	ASFLM1-18.4320MHZ-C
20.00000	535-9661-5-ND	1.78	1.53	1.15	1.02	ASFLM1-20.0000MHZ-C
24.00000	535-9662-5-ND	1.78	1.53	1.15	1.02	ASFLM1-24.0000MHZ-C
24.57600	535-9663-5-ND	1.78	1.53	1.15	1.02	ASFLM1-24.5760MHZ-C
25.00000	535-9664-5-ND	1.78	1.53	1.15	1.02	ASFLM1-25.0000MHZ-C
27.00000	535-9665-5-ND	1.78	1.53	1.15	1.02	ASFLM1-27.0000MHZ-C
30.00000	535-9666-5-ND	1.78	1.53	1.15	1.02	ASFLM1-30.0000MHZ-C
32.00000	535-9667-5-ND	1.78	1.53	1.15	1.02	ASFLM1-32.0000MHZ-C
33.00000	535-9668-5-ND	1.78	1.53	1.15	1.02	ASFLM1-33.0000MHZ-C
33.33300	535-9669-5-ND	1.78	1.53	1.15	1.02	ASFLM1-33.3333MHZ-C
40.00000	535-9670-5-ND	1.78	1.53	1.15	1.02	ASFLM1-40.0000MHZ-C
48.00000	535-9671-5-ND	1.78	1.53	1.15	1.02	ASFLM1-48.0000MHZ-C
50.00000	535-9672-5-ND	1.78	1.53	1.15	1.02	ASFLM1-50.0000MHZ-C
66.00000	535-9710-5-ND	1.73	1.49	1.12	.99	ASFLM1-66.0000MHZ-L-C
66.66660	535-9711-5-ND	1.73	1.49	1.12	.99	ASFLM1-66.6666MHZ-L-C
72.00000	535-9712-5-ND	1.73	1.49	1.12	.99	ASFLM1-72.0000MHZ-L-C
75.00000	535-9713-5-ND	1.73	1.49	1.12	.99	ASFLM1-75.0000MHZ-L-C
80.00000	535-9714-5-ND	1.73	1.49	1.12	.99	ASFLM1-80.0000MHZ-L-C
100.00000	535-9715-5-ND	1.73	1.49	1.12	.99	ASFLM1-100.0000MHZ-L-C
125.00000	535-9716-5-ND	1.73	1.49	1.12	.99	ASFLM1-125.0000MHZ-L-C

ASEM1 Series
3.2 x 2.5 SMD MEMS Oscillators

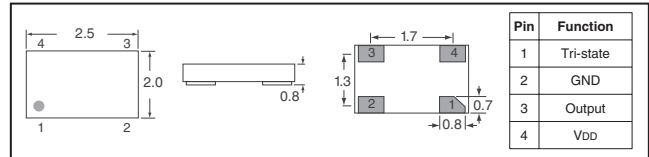
Specifications: • Frequency Tolerance: ±50ppm • Operating Temperature: -40°C - 85°C • Supply Voltage: 3.0V ±0.3V **Features:** • Ultra Miniature Pure Silicon™ Clock Oscillator, MEMS Technology by Disquera. • Suitable for high shock resistance, industrial/COTS military applications
Dim. in mm.



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			
1.8432	535-9751-1-ND	1.76	1.51	1.13	1.01	535-9751-2-ND	701.32	ASEM1-1.8432MHZ-LC-T
4.0000	535-9752-1-ND	1.76	1.51	1.13	1.01	535-9752-2-ND	701.32	ASEM1-4.0000MHZ-LC-T
7.3728	535-9753-1-ND	1.76	1.51	1.13	1.01	535-9753-2-ND	701.32	ASEM1-7.3728MHZ-LC-T
8.0000	535-9754-1-ND	1.76	1.51	1.13	1.01	535-9754-2-ND	701.32	ASEM1-8.0000MHZ-LC-T
10.0000	535-9755-1-ND	1.76	1.51	1.13	1.01	535-9755-2-ND	701.32	ASEM1-10.0000MHZ-LC-T
11.0592	535-9756-1-ND	1.76	1.51	1.13	1.01	535-9756-2-ND	701.32	ASEM1-11.0592MHZ-LC-T
12.0000	535-9757-1-ND	1.76	1.51	1.13	1.01	535-9757-2-ND	701.32	ASEM1-12.0000MHZ-LC-T
14.31818	535-9758-1-ND	1.76	1.51	1.13	1.01	535-9758-2-ND	701.32	ASEM1-14.31818MHZ-LC-T
14.7456	535-9759-1-ND	1.76	1.51	1.13	1.01	535-9759-2-ND	701.32	ASEM1-14.7456MHZ-LC-T
16.0000	535-9760-1-ND	1.76	1.51	1.13	1.01	535-9760-2-ND	701.32	ASEM1-16.0000MHZ-LC-T
18.4320	535-9761-1-ND	1.76	1.51	1.13	1.01	535-9761-2-ND	701.32	ASEM1-18.4320MHZ-LC-T
20.0000	535-9762-1-ND	1.76	1.51	1.13	1.01	535-9762-2-ND	701.32	ASEM1-20.0000MHZ-LC-T
24.0000	535-9763-1-ND	1.76	1.51	1.13	1.01	535-9763-2-ND	701.32	ASEM1-24.0000MHZ-LC-T
24.5760	535-9764-1-ND	1.76	1.51	1.13	1.01	535-9764-2-ND	701.32	ASEM1-24.5760MHZ-LC-T
25.0000	535-9765-1-ND	1.76	1.51	1.13	1.01	535-9765-2-ND	701.32	ASEM1-25.0000MHZ-LC-T
27.0000	535-9766-1-ND	1.76	1.51	1.13	1.01	535-9766-2-ND	701.32	ASEM1-27.0000MHZ-LC-T
29.4912	535-9767-1-ND	1.76	1.51	1.13	1.01	535-9767-2-ND	701.32	ASEM1-29.4912MHZ-LC-T
30.0000	535-9768-1-ND	1.76	1.51	1.13	1.01	535-9768-2-ND	701.32	ASEM1-30.0000MHZ-LC-T
32.0000	535-9769-1-ND	1.76	1.51	1.13	1.01	535-9769-2-ND	701.32	ASEM1-32.0000MHZ-LC-T
33.0000	535-9770-1-ND	1.76	1.51	1.13	1.01	535-9770-2-ND	701.32	ASEM1-33.0000MHZ-LC-T
33.3330	535-9771-1-ND	1.76	1.51	1.13	1.01	535-9771-2-ND	701.32	ASEM1-33.3333MHZ-LC-T
44.0000	535-9772-1-ND	1.76	1.51	1.13	1.01	535-9772-2-ND	701.32	ASEM1-44.0000MHZ-LC-T
48.0000	535-9773-1-ND	1.76	1.51	1.13	1.01	535-9773-2-ND	701.32	ASEM1-48.0000MHZ-LC-T
50.0000	535-9774-1-ND	1.76	1.51	1.13	1.01	535-9774-2-ND	701.32	ASEM1-50.0000MHZ-LC-T
60.0000	535-9775-1-ND	1.76	1.51	1.13	1.01	535-9775-2-ND	701.32	ASEM1-60.0000MHZ-LC-T
80.0000	535-9776-1-ND	1.83	1.57	1.18	1.05	535-9776-2-ND	731.81	ASEM1-80.0000MHZ-LC-T
100.0000	535-9777-1-ND	1.83	1.57	1.18	1.05	535-9777-2-ND	731.81	ASEM1-100.0000MHZ-LC-T

ASDM Series
2.5 x 2.0 SMD MEMS Oscillators

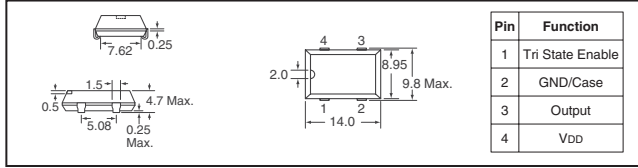
Specifications: • Frequency Tolerance: ±50ppm • Operating Temperature: -40°C - 85°C • Supply Voltage: 3.0V ±0.3V **Features:** • Ultra Miniature Pure Silicon™ Clock Oscillator, MEMS Technology by Disquera. • Suitable for high shock resistance, industrial/COTS military applications
Dim. in mm.



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			
1.8432	535-9778-1-ND	1.98	1.70	1.28	1.14	535-9778-2-ND	792.79	ASDM1-1.8432MHZ-LC-T
4.0000	535-9779-1-ND	1.98	1.70	1.28	1.14	535-9779-2-ND	792.79	ASDM1-4.0000MHZ-LC-T
7.3728	535-9780-1-ND	1.98	1.70	1.28	1.14	535-9780-2-ND	792.79	ASDM1-7.3728MHZ-LC-T
8.0000	535-9781-1-ND	1.98	1.70	1.28	1.14	535-9781-2-ND	792.79	ASDM1-8.0000MHZ-LC-T
10.0000	535-9782-1-ND	1.98	1.70	1.28	1.14	535-9782-2-ND	792.79	ASDM1-10.0000MHZ-LC-T
11.0592	535-9783-1-ND	1.98	1.70	1.28	1.14	535-9783-2-ND	792.79	ASDM1-11.0592MHZ-LC-T
12.0000	535-9784-1-ND	1.98	1.70	1.28	1.14	535-9784-2-ND	792.79	ASDM1-12.0000MHZ-LC-T
14.31818	535-9785-1-ND	1.98	1.70	1.28	1.14	535-9785-2-ND	792.79	ASDM1-14.31818MHZ-LC-T
14.7456	535-9786-1-ND	1.98	1.70	1.28	1.14	535-9786-2-ND	792.79	ASDM1-14.7456MHZ-LC-T
16.0000	535-9787-1-ND	1.98	1.70	1.28	1.14	535-9787-2-ND	792.79	ASDM1-16.0000MHZ-LC-T
18.4320	535-9788-1-ND	1.98	1.70	1.28	1.14	535-9788-2-ND	792.79	ASDM1-18.4320MHZ-LC-T
20.0000	535-9789-1-ND	1.98	1.70	1.28	1.14	535-9789-2-ND	792.79	ASDM1-20.0000MHZ-LC-T
24.0000	535-9790-1-ND	1.98	1.70	1.28	1.14	535-9790-2-ND	792.79	ASDM1-24.0000MHZ-LC-T
24.5760	535-9791-1-ND	1.98	1.70	1.28	1.14	535-9791-2-ND	792.79	ASDM1-24.5760MHZ-LC-T
25.0000	535-9792-1-ND	1.98	1.70	1.28	1.14	535-9792-2-ND	792.79	ASDM1-25.0000MHZ-LC-T
27.0000	535-9793-1-ND	1.98	1.70	1.28	1.14	535-9793-2-ND	792.79	ASDM1-27.0000MHZ-LC-T
29.4912	535-9794-1-ND	1.98	1.70	1.28	1.14	535-9794-2-ND	792.79	ASDM1-29.4912MHZ-LC-T
30.0000	535-9795-1-ND	1.98	1.70	1.28	1.14	535-9795-2-ND	792.79	

ASML Series
14 x 10 SMD Oscillators

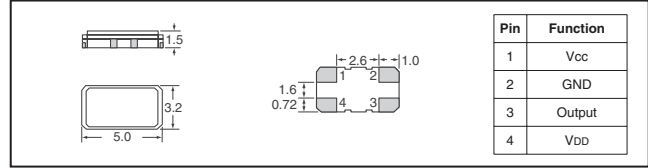
Specifications: • Frequency Tolerance: ±100ppm • Operating Temperature: 0°C - 70°C • Supply Voltage: 3.3V ±10%
Features: • HCMOS and TTL compatible • Tri-State output
Dim. in mm.



Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
		1	10	50	100			
1.84320	535-9386-1-ND	1.77	1.66	1.42	1.07	535-9386-2-ND	660.66	ASML-1.8432MHZ-T
3.68640	535-9387-1-ND	1.77	1.66	1.42	1.07	535-9387-2-ND	660.66	ASML-3.6864MHZ-T
4.00000	535-9388-1-ND	1.77	1.66	1.42	1.07	535-9388-2-ND	660.66	ASML-4.000MHZ-T
8.00000	535-9389-1-ND	1.77	1.66	1.42	1.07	535-9389-2-ND	660.66	ASML-8.000MHZ-T
10.00000	535-9390-1-ND	1.77	1.66	1.42	1.07	535-9390-2-ND	660.66	ASML-10.000MHZ-T
14.31818	535-9393-1-ND	1.77	1.66	1.42	1.07	535-9393-2-ND	660.66	ASML-14.31818MHZ-T
16.00000	535-9394-1-ND	1.77	1.66	1.42	1.07	535-9394-2-ND	660.66	ASML-16.000MHZ-T
24.00000	535-9396-1-ND	1.77	1.66	1.42	1.07	535-9396-2-ND	660.66	ASML-24.000MHZ-T
24.57600	535-9397-1-ND	1.77	1.66	1.42	1.07	535-9397-2-ND	660.66	ASML-24.576MHZ-T
27.00000	535-9399-1-ND	1.77	1.66	1.42	1.07	535-9399-2-ND	660.66	ASML-27.000MHZ-T
32.00000	535-9400-1-ND	1.77	1.66	1.42	1.07	535-9400-2-ND	660.66	ASML-32.000MHZ-T
32.76800	535-9401-1-ND	1.77	1.66	1.42	1.07	535-9401-2-ND	660.66	ASML-32.768MHZ-T
33.00000	535-9402-1-ND	1.77	1.66	1.42	1.07	535-9402-2-ND	660.66	ASML-33.000MHZ-T
33.33300	535-9403-1-ND	1.77	1.66	1.42	1.07	535-9403-2-ND	660.66	ASML-33.333MHZ-T
48.00000	535-9405-1-ND	1.77	1.66	1.42	1.07	535-9405-2-ND	660.66	ASML-48.000MHZ-T

ASVTX-09 Series
5.0 x 3.2 SMD VCTCXO

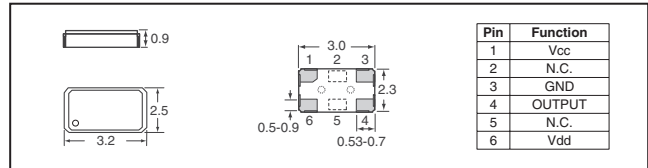
Specifications: • Frequency Stability: ±2.5ppm; -30°C - 75°C • Frequency Tolerance: ±0.5ppm @ 25°C • Operating Temperature: -30°C - 75°C • Supply Voltage: 3V ±5%
Dim. in mm.



Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	T & R Pricing 1,000	Abracon Part No.
		1	10	50	100			
12.80	535-9333-1-ND	5.85	5.47	4.69	3.52	535-9333-2-ND	2185.26	ASVTX-09-12.800MHZ-T
13.00	535-9334-1-ND	5.85	5.47	4.69	3.52	535-9334-2-ND	2185.26	ASVTX-09-13.00MHZ-T
14.40	535-9335-1-ND	5.85	5.47	4.69	3.52	535-9335-2-ND	2185.26	ASVTX-09-14.400MHZ-T
16.00	535-9336-1-ND	5.85	5.47	4.69	3.52	535-9336-2-ND	2185.26	ASVTX-09-16.000MHZ-T
16.80	535-9337-1-ND	5.85	5.47	4.69	3.52	535-9337-2-ND	2185.26	ASVTX-09-16.800MHZ-T
19.20	535-9338-1-ND	5.85	5.47	4.69	3.52	535-9338-2-ND	2185.26	ASVTX-09-19.200MHZ-T
19.44	535-9339-1-ND	5.85	5.47	4.69	3.52	535-9339-2-ND	2185.26	ASVTX-09-19.440MHZ-T
20.00	535-9702-1-ND	5.85	5.47	4.69	3.52	535-9702-2-ND	2419.76	ASVTX-09-20.000MHZ-T
26.00	535-9340-1-ND	5.85	5.47	4.69	3.52	535-9340-2-ND	2185.26	ASVTX-09-26.000MHZ-T

ASVTX11 Series
3.2 x 2.5 SMD VCTCXO

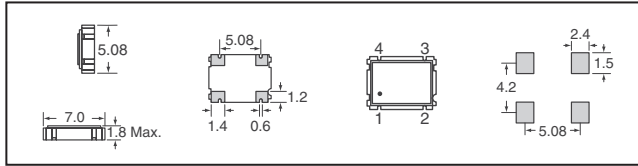
Specifications: • Frequency Stability: ±2.5ppm; -30°C - 75°C • Operating Temperature: -30°C - 75°C • Supply Voltage: 3V ±5%
Dim. in mm.



Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
		1	10	50	100			
13.000	535-9612-1-ND	5.72	4.91	3.68	3.27	535-9612-2-ND	2286.90	ASVTX-11-A-13.000MHZ-T
14.400	535-9613-1-ND	5.72	4.91	3.68	3.27	535-9613-2-ND	2286.90	ASVTX-11-A-14.400MHZ-T
16.357	535-9614-1-ND	5.72	4.91	3.68	3.27	535-9614-2-ND	2286.90	ASVTX-11-A-16.357MHZ-T
16.368	535-9615-1-ND	5.72	4.91	3.68	3.27	535-9615-2-ND	2286.90	ASVTX-11-A-16.368MHZ-T
19.200	535-9616-1-ND	5.72	4.91	3.68	3.27	535-9616-2-ND	2286.90	ASVTX-11-A-19.200MHZ-T
20.000	535-9617-1-ND	5.72	4.91	3.68	3.27	535-9617-2-ND	2286.90	ASVTX-11-A-20.000MHZ-T
24.576	535-9618-1-ND	5.72	4.91	3.68	3.27	535-9618-2-ND	2286.90	ASVTX-11-A-24.576MHZ-T
26.000	535-9619-1-ND	5.72	4.91	3.68	3.27	535-9619-2-ND	2286.90	ASVTX-11-A-26.000MHZ-T
33.600	535-9620-1-ND	5.72	4.91	3.68	3.27	535-9620-2-ND	2286.90	ASVTX-11-A-33.600MHZ-T
38.400	535-9621-1-ND	5.72	4.91	3.68	3.27	535-9621-2-ND	2286.90	ASVTX-11-A-38.400MHZ-T

ASV Series
7.0 x 5.0 SMD Oscillators

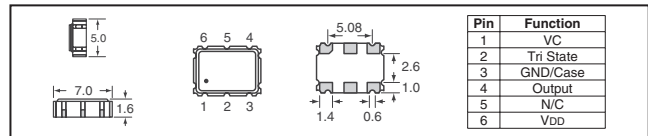
Specifications: • Operating Temperature: -20°C - 70°C • Supply Voltage: 3.3V ±10% • Frequency Tolerance: EJ: ±20ppm, -20°C - 70°C; EC: ±50ppm, -20°C - 70°C Features: • HCMOS and TTL compatible
Dim. in mm.



Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
		1	10	50	100			
1.84320	535-9315-1-ND	2.18	2.04	1.75	1.31	535-9315-2-ND	813.12	ASV-1.8432MHZ-EJ-T
3.68640	535-9326-1-ND	2.18	2.04	1.75	1.31	535-9326-2-ND	813.12	ASV-3.6864MHZ-EJ-T
4.00000	535-9329-1-ND	2.18	2.04	1.75	1.31	535-9329-2-ND	813.12	ASV-4.000MHZ-EJ-T
7.37280	535-9331-1-ND	2.18	2.04	1.75	1.31	535-9331-2-ND	813.12	ASV-7.3728MHZ-EJ-T
8.00000	535-9332-1-ND	2.18	2.04	1.75	1.31	535-9332-2-ND	813.12	ASV-8.000MHZ-EJ-T
10.00000	535-9307-1-ND	2.18	2.04	1.75	1.31	535-9307-2-ND	813.12	ASV-10.000MHZ-EJ-T
11.05920	535-9308-1-ND	2.18	2.04	1.75	1.31	535-9308-2-ND	813.12	ASV-11.0592MHZ-EJ-T
12.00000	535-9309-1-ND	2.18	2.04	1.75	1.31	535-9309-2-ND	813.12	ASV-12.000MHZ-EJ-T
14.31818	535-9310-1-ND	2.18	2.04	1.75	1.31	535-9310-2-ND	813.12	ASV-14.31818MHZ-EJ-T
14.74560	535-9311-1-ND	2.18	2.04	1.75	1.31	535-9311-2-ND	813.12	ASV-14.7456MHZ-EJ-T
16.00000	535-9312-1-ND	2.18	2.04	1.75	1.31	535-9312-2-ND	813.12	ASV-16.000MHZ-EJ-T
16.38400	535-9313-1-ND	2.18	2.04	1.75	1.31	535-9313-2-ND	813.12	ASV-16.384MHZ-EJ-T
18.43200	535-9314-1-ND	2.18	2.04	1.75	1.31	535-9314-2-ND	813.12	ASV-18.432MHZ-EJ-T
20.00000	535-9316-1-ND	2.18	2.04	1.75	1.31	535-9316-2-ND	813.12	ASV-20.000MHZ-EJ-T
24.00000	535-9317-1-ND	2.18	2.04	1.75	1.31	535-9317-2-ND	813.12	ASV-24.000MHZ-EJ-T
24.57600	535-9318-1-ND	2.18	2.04	1.75	1.31	535-9318-2-ND	813.12	ASV-24.576MHZ-EJ-T
25.00000	535-9319-1-ND	2.18	2.04	1.75	1.31	535-9319-2-ND	813.12	ASV-25.000MHZ-EJ-T
27.00000	535-9320-1-ND	2.18	2.04	1.75	1.31	535-9320-2-ND	813.12	ASV-27.000MHZ-EJ-T
29.49120	535-9321-1-ND	2.18	2.04	1.75	1.31	535-9321-2-ND	813.12	ASV-29.4912MHZ-EJ-T
30.00000	535-9322-1-ND	2.18	2.04	1.75	1.31	535-9322-2-ND	813.12	ASV-30.000MHZ-EJ-T
32.00000	535-9323-1-ND	2.18	2.04	1.75	1.31	535-9323-2-ND	813.12	ASV-32.000MHZ-EJ-T
33.00000	535-9324-1-ND	2.18	2.04	1.75	1.31	535-9324-2-ND	813.12	ASV-33.000MHZ-EJ-T
33.33300	535-9325-1-ND	2.18	2.04	1.75	1.31	535-9325-2-ND	813.12	ASV-33.333MHZ-EJ-T
40.00000	535-9327-1-ND	2.18	2.04	1.75	1.31	535-9327-2-ND	813.12	ASV-40.000MHZ-EJ-T
48.00000	535-9328-1-ND	2.18	2.04	1.75	1.31	535-9328-2-ND	813.12	ASV-48.000MHZ-EJ-T
50.00000	535-9330-1-ND	2.18	2.04	1.75	1.31	535-9330-2-ND	813.12	ASV-50.000MHZ-EJ-T
100.00000	300-8232-1-ND	3.40	3.18	2.73	2.05	300-8232-2-ND	1270.50	ASV-100.000MHZ-E-C-T
106.25000	300-8233-1-ND	3.40	3.18	2.73	2.05	300-8233-2-ND	1270.50	ASV-106.250MHZ-E-C-T
125.00000	300-8234-1-ND	3.40	3.18	2.73	2.05	300-8234-2-ND	1270.50	ASV-125.000MHZ-E-C-T
133.33000	300-8235-1-ND	3.40	3.18	2.73	2.05	300-8235-2-ND	1270.50	ASV-133.330MHZ-E-C-T
150.00000	300-8236-1-ND	5.45	5.09	4.36	3.27	300-8236-2-ND	2032.80	ASV-150.000MHZ-E-C-T

ASVV Series
7.0 x 5.0 SMD VCXO

Specifications: • Frequency Stability: ±50ppm; 0°C - 70°C • Operating Temperature: 0°C - 70°C • Supply Voltage: 3.3V ±5% • Pullability @ Voltage: ±150ppm @ 3VDC (N152); ±100ppm @ 3VDC (N102)
Dim. in mm.



Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
		1	10	50	100			
1.544	535-9343-1-ND	3.59	3.36	2.88	2.16	535-9343-2-ND	1341.65	ASVV-1.544MHZ-N152
4.096	535-9351-1-ND	3.59	3.36	2.88	2.16	535-9351-2-ND	1341.65	ASVV-4.096MHZ-N152
6.176	535-9352-1-ND	3.59	3.36	2.88	2.16	535-9352-2-ND	1341.65	ASVV-6.176MHZ-N152
16.384	535-9341-1-ND	3.59	3.36	2.88	2.16	535-9341-2-ND	1341.65	ASVV-16.384MHZ-N152
19.440	535-9342-1-ND	3.59	3.36	2.88	2.16	535-9342-2-ND	1341.65	ASVV-19.440MHZ-N152
20.000	535-9344-1-ND	3.59	3.36	2.88	2.16	535-9344-2-ND	1341.65	ASVV-20.000MHZ-N152
27.000	535-9345-1-ND	3.59	3.36	2.88	2.16	535-9345-2-ND	1341.65	ASVV-27.000MHZ-N152
32.768	535-9346-1-ND	3.59	3.36	2.88	2.16	535-9346-2-ND	1341.65	ASVV-32.768MHZ-N152
35.328	535-9347-1-ND	3.59	3.36	2.88	2.16	535-9347-2-ND	1341.65	ASVV-35.328MHZ-N152
38.880	535-9348-1-ND	3.59	3.36	2.88	2.16	535-9348-2-ND	1341.65	ASVV-38.880MHZ-N152
40.000	535-9349-1-ND	3.59	3.36	2.88	2.16	535-9349-2-ND	1341.65	ASVV-40.000MHZ-N102
44.736	535-9350-1-ND	3.59	3.36	2.88	2.16	535-9350-2-ND	1341.65	ASVV-44.736MHZ-N102

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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Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel Pricing* 2,000	Citizen Part No.
		1	10	50		
10.000000	300-7205-1-ND	2.45	2.29	1.97	914.76/M	CSX750FCC10.000M-UT
12.000000	300-7206-1-ND	2.45	2.29	1.97	914.76/M	CSX750FCC12.000M-UT
12.288000	300-7207-1-ND	2.45	2.29	1.97	914.76/M	CSX750FCC12.288M-UT
14.318180	300-7208-1-ND	2.45	2.29	1.97	914.76/M	CSX750FCC14.31818M-UT
14.745600	300-7209-1-ND	2.18	2.04	1.75	813.12/M	CSX750FCC14.7456M-UT
16.000000	300-7210-1-ND	2.45	2.29	1.97	914.76/M	CSX750FCC16.000M-UT
16.384000	300-7211-1-ND	2.45	2.29	1.97	914.76/M	CSX750FCC16.384M-UT
18.432000	300-7212-1-ND	2.45	2.29	1.97	914.76/M	CSX750FCC18.432M-UT
20.000000	300-7213-1-ND	2.18	2.04	1.75	813.12/M	CSX750FCC20.000M-UT
24.000000	300-7214-1-ND	2.45	2.29	1.97	914.76/M	CSX750FCC24.000M-UT
24.576000	300-7215-1-ND	2.18	2.04	1.75	813.12/M	CSX750FCC24.576M-UT
25.000000	300-7216-1-ND	2.45	2.29	1.97	914.76/M	CSX750FCC25.000M-UT
27.000000	300-7217-1-ND	2.18	2.04	1.75	813.12/M	CSX750FCC27.000M-UT
29.491200	300-7218-1-ND	2.45	2.29	1.97	914.76/M	CSX750FCC29.4912M-UT
32.000000	300-7219-1-ND	2.45	2.29	1.97	914.76/M	CSX750FCC32.000M-UT
32.768000	300-7220-1-ND	2.45	2.29	1.97	914.76/M	CSX750FCC32.768M-UT
33.333000	300-7221-1-ND	2.45	2.29	1.97	914.76/M	CSX750FCC33.333M-UT
35.328000	300-7222-1-ND	2.45	2.29	1.97	914.76/M	CSX750FCC35.328M-UT
40.000000	300-7223-1-ND	2.45	2.29	1.97	914.76/M	CSX750FCC40.000M-UT
44.000000	300-7224-1-ND	2.45	2.29	1.97	914.76/M	CSX750FCC44.000M-UT
45.000000	300-7225-1-ND	2.45	2.29	1.97	914.76/M	CSX750FCC45.000M-UT
49.152000	300-7226-1-ND	2.45	2.29	1.97	914.76/M	CSX750FCC49.152M-UT
50.000000	300-7227-1-ND	2.45	2.29	1.97	914.76/M	CSX750FCC50.000M-UT
60.000000	300-7228-1-ND	2.45	2.29	1.97	914.76/M	CSX750FCC60.000M-UT
66.666000	300-7229-1-ND	2.45	2.29	1.97	914.76/M	CSX750FCC66.666M-UT

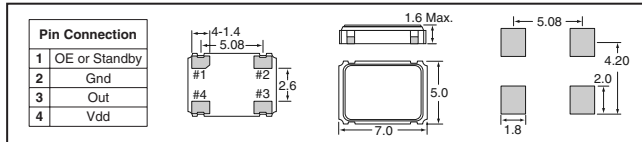
CSX750FJC

40.000000	300-7253-1-ND	2.45	2.29	1.97	914.76/M	CSX750FJC40.000M-UT
44.000000	300-7254-1-ND	2.45	2.29	1.97	914.76/M	CSX750FJC44.000M-UT
45.000000	300-7255-1-ND	2.45	2.29	1.97	914.76/M	CSX750FJC45.000M-UT
49.152000	300-7256-1-ND	2.45	2.29	1.97	914.76/M	CSX750FJC49.152M-UT
50.000000	300-7257-1-ND	2.18	2.04	1.75	813.12/M	CSX750FJC50.000M-UT
60.000000	300-7258-1-ND	2.45	2.29	1.97	914.76/M	CSX750FJC60.000M-UT
66.666000	300-7259-1-ND	2.18	2.04	1.75	813.12/M	CSX750FJC66.666M-UT
80.000000	300-8191-1-ND	3.40	3.18	2.73	1270.50/M	CSX750FJC80.000M-UT
80.000000	300-8231-1-ND	2.86	2.67	2.29	1067.22/M	CSX750FJC80.000M-UT

* For Tape and Reel part number, change 1-ND to 2-ND.

CSX-750A Series High Frequency Ceramic Surface Mount Clock Oscillators

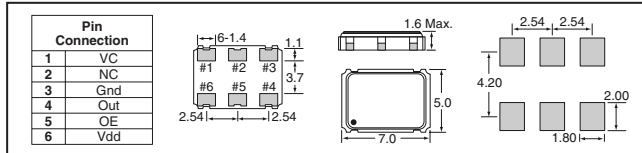
Specifications:
 • **CSX750AC:** 10TTL/30pF, OE, 5.0V operation type • **CSX750AB:** 15pF, OE, 3.3V operation type
 • **Nominal Frequency:** CSX750AC/AB 70.0 – 140.0MHz • **Operating Temperature:** -40°C – 85°C • **Supply Voltage:** CSX750AC 5.0 ±0.5V, CSX750AB 3.3 ±0.3V • **Frequency Stability:** B: ±50ppm(-20°C – 70°C) • **Current Consumption:** 50mA Max (CSX750AC), 30mA Max (CSX750AB) • **Duty Cycle:** 40% – 60% (TTL level), 45% – 55% (CMOS level)



Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel Pricing 2,000	Citizen Part No.
		1	10	50		
106.250	300-8154-1-ND	3.00	2.45	2.18	1524.60/M	CSX750ABB106.250MTR
106.250	300-8148-1-ND	3.00	2.45	2.18	1524.60/M	CSX750ACB106.250MTR
133.330	300-8150-1-ND	3.00	2.45	2.18	—	CSX750ACB133.330MTR

CSX-750V Series Voltage Controlled Crystal Oscillators

Specifications:
 • **Supply Voltage:** CSX-750VJ: 5.0V ±0.5; CSX-750VK: 3.3V ±0.3 • **Frequency Stability:** ±50ppm • **Pullability:** CSX-750VJ: ±100ppm; CSX-750VK: ±90ppm • **Output Current:** 10mA • **Operating Temperature:** -20°C – 70°C • **Duty Cycle:** 45% Min., 55% Max.

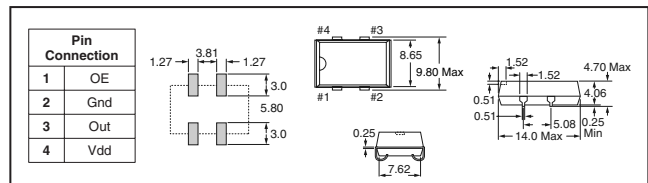


Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel Pricing 2,000	Citizen Part No.
		1	10	50		
4.096	300-8173-1-ND	3.00	2.45	2.18	—	CSX750VKB4.096M-UT
4.096	300-8157-1-ND	3.00	2.45	2.18	—	CSX750VJB4.096M-UT
8.000	300-8174-1-ND	3.00	2.45	2.18	1524.60/M	CSX750VKB8.000M-UT
8.000	300-8158-1-ND	3.00	2.45	2.18	1524.60/M	CSX750VJB8.000M-UT
8.192	300-8175-1-ND	3.00	2.45	2.18	—	CSX750VKB8.192M-UT

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 2,000	Citizen Part No.
		1	10	50			
12.288	300-8160-1-ND	3.00	2.45	2.18	—	CSX750VJB12.288M-UT	
12.352	300-8177-1-ND	3.00	2.45	2.18	—	CSX750VKB12.352M-UT	
12.352	300-8161-1-ND	3.00	2.45	2.18	300-8161-2-ND	1524.60/M	CSX750VJB12.352M-UT
13.500	300-8178-1-ND	5.99	4.91	4.36	300-8178-2-ND	2032.80/M	CSX750VKB13.500M-UT
13.500	300-8162-1-ND	5.99	4.91	4.36	300-8162-2-ND	2032.80/M	CSX750VJB13.500M-UT
16.384	300-8163-1-ND	3.00	2.45	2.18	300-8163-2-ND	1524.60/M	CSX750VJB16.384M-UT
19.440	300-8164-1-ND	3.00	2.45	2.18	300-8164-2-ND	1524.60/M	CSX750VJB19.440M-UT
24.704	300-8167-1-ND	3.00	2.45	2.18	300-8167-2-ND	1524.60/M	CSX750VJB24.704M-UT
25.000	300-8168-1-ND	3.00	2.45	2.18	—	CSX750VJB25.000M-UT	
32.000	300-8186-1-ND	3.00	2.45	2.18	300-8186-2-ND	1524.60/M	CSX750VKB32.000M-UT
32.000	300-8170-1-ND	3.00	2.45	2.18	—	CSX750VJB32.000M-UT	
32.768	300-8171-1-ND	3.00	2.45	2.18	—	CSX750VJB32.768M-UT	
35.328	300-8188-1-ND	3.00	2.45	2.18	300-8188-2-ND	1524.60/M	CSX750VKB35.328M-UT
35.328	300-8172-1-ND	3.00	2.45	2.18	—	CSX750VJB35.328M-UT	

CMX309FLC Series Oscillators

Specifications:
 • **Frequency Tolerance:** ±100ppm (-20°C – 70°C) • **Operating Temperature:** -40°C – 85°C • **Storage Temperature:** -55°C – 125°C • **Supply Voltage:** 5V ±0.5V • **Supply Current:** 23mA Max. • **Duty @ TTL Level (1.4V):** 45% – 55% • **Duty @ CMOS Level (VDD/2):** 40% – 60% • **Output Voltage:** -0.4V (VOH) Min. • **Output Load:** 0.4V (VOL) Max. • **Output Load TTL:** 10TTL Max. • **Output Load CMOS:** 50pF Max. • **Rise Time TTL:** 8ns Max. • **Fall Time TTL:** 8ns Max. • **Rise Time CMOS:** 8ns Max. • **Fall Time CMOS:** 8ns Max. • **Start-up Time:** 4ms Max. • **Output Enable-Voltage:** 2V (VIH) Min. • **Output Enable-Voltage:** 0.8V (VIL) Max. • **Disable Current:** 12mA Max. • **Aging (First Year):** ±5ppm Max.



Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
		1	10	50			
1.54400	300-7001-1-ND	2.18	2.04	1.31	—	—	CMX309FLC1.544MT
3.07200	300-7006-1-ND	2.18	2.04	1.31	300-7006-2-ND	964.13	CMX309FLC3.072MT
3.579545	300-7007-1-ND	2.18	2.04	1.31	300-7007-2-ND	964.13	CMX309FLC3.579545MT
6.14400	300-7014-1-ND	2.18	2.04	1.31	300-7014-2-ND	964.13	CMX309FLC6.144MT
8.19200	300-7017-1-ND	2.18	2.04	1.31	300-7017-2-ND	964.13	CMX309FLC8.192MT
9.83040	300-7018-1-ND	2.18	2.04	1.31	—	—	CMX309FLC9.8304MT
11.00000	300-7021-1-ND	2.18	2.04	1.31	300-7021-2-ND	964.13	CMX309FLC11.000MT
11.28960	300-7023-1-ND	2.18	2.04	1.31	300-7023-2-ND	964.13	CMX309FLC11.2896MT
12.35200	300-7026-1-ND	2.18	2.04	1.31	300-7026-2-ND	964.13	CMX309FLC12.352MT
13.50000	300-7027-1-ND	2.18	2.04	1.31	300-7027-2-ND	964.13	CMX309FLC13.500MT
14.31818	300-7028-1-ND	2.18	2.04	1.31	300-7028-2-ND	964.13	CMX309FLC14.31818MT
16.38400	300-7034-1-ND	2.18	2.04	1.31	300-7034-2-ND	964.13	CMX309FLC16.384MT
16.66600	300-7035-1-ND	2.18	2.04	1.31	300-7035-2-ND	964.13	CMX309FLC16.666MT
18.00000	300-7037-1-ND	2.18	2.04	1.31	300-7037-2-ND	964.13	CMX309FLC18.000MT
18.43200	300-7038-1-ND	2.18	2.04	1.31	300-7038-2-ND	964.13	CMX309FLC18.432MT
19.66800	300-7039-1-ND	2.18	2.04	1.31	—	—	CMX309FLC19.668MT
24.00000	300-7042-1-ND	2.18	2.04	1.31	300-7042-2-ND	964.13	CMX309FLC24.000MT
25.17500	300-7045-1-ND	2.18	2.04	1.31	—	—	CMX309FLC25.175MT
27.00000	300-7046-1-ND	2.18	2.04	1.31	300-7046-2-ND	964.13	CMX309FLC27.000MT
28.32200	300-7047-1-ND	2.18	2.04	1.31	—	—	CMX309FLC28.322MT
28.63636	300-7048-1-ND	2.18	2.04	1.31	—	—	CMX309FLC28.63636MT
29.498928	300-7049-1-ND	2.18	2.04	1.31	—	—	CMX309FLC29.498928MT
30.00000	300-7050-1-ND	2.18	2.04	1.31	—	—	CMX309FLC30.000MT

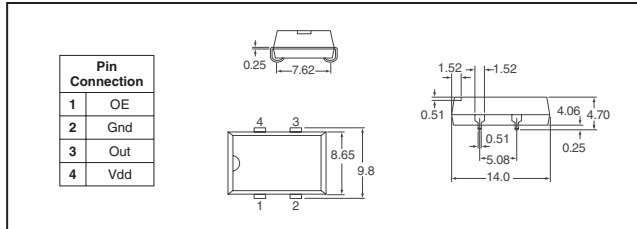
RoHS Compliant

2.45760	300-8584-1-ND	1.91	1.78	1.15	—	—	CMX309FLC2.4576M-UT
3.68640	300-8587-1-ND	1.91	1.78	1.15	300-8587-2-ND	843.61	CMX309FLC3.6864M-UT
4.00000	300-8588-1-ND	1.91	1.78	1.15	—	—	CMX309FLC4.000M-UT
4.91520	300-8590-1-ND	1.91	1.78	1.15	300-8590-2-ND	843.61	CMX309FLC4.9152M-UT
6.00000	300-8592-1-ND	2.18	2.04	1.31	—	—	CMX309FLC6.000M-UT
6.14400	300-8593-1-ND	2.18	2.04	1.31	—	—	CMX309FLC6.144M-UT
7.37280	300-8594-1-ND	2.18	2.04	1.31	—	—	CMX309FLC7.3728M-UT
8.00000	300-8595-1-ND	1.91	1.78	1.15	300-8595-2-ND	843.61	CMX309FLC8.000M-UT
8.19200	300-8596-1-ND	1.91	1.78	1.15	—	—	CMX309FLC8.192M-UT
9.83040	300-8597-1-ND	1.91	1.78	1.15	—	—	CMX309FLC9.8304M-UT
13.50000	300-8603-1-ND	2.18	2.04	1.31	—	—	CMX309FLC13.500M-UT
14.31818	300-8604-1-ND	1.91	1.78	1.15	300-8604-2-ND	843.61	CMX309FLC14.31818M-UT
15.36000	300-8606-1-ND	2.18	2.04	1.31	—	—	CMX309FLC15.360M-UT
16.38400	300-8608-1-ND	1.91	1.78	1.15	—	—	CMX309FLC16.384M-UT
17.734475	300-8609-1-ND	2.18	2.04	1.31	300-8609-2-ND	964.13	CMX309FLC17.734475M-UT
18.00000	300-8610-1-ND	2.18	2.04	1.31	—	—	CMX309FLC18.000M-UT
18.43200	300-8611-1-ND	1.91	1.78	1.15	—	—	CMX309FLC18.432M-UT
22.11840	300-8614-1-ND	1.91	1.78	1.15	300-8614-2-ND	843.61	CMX309FLC22.1184M-UT
24.00000	300-8615-1-ND	1.91	1.78	1.15	—	—	CMX309FLC24.000M-UT
27.00000	300-8619-1-ND	1.91	1.78	1.15	—	—	CMX309FLC27.000M-UT
28.32200	300-8620-1-ND	1.91	1.78	1.15	300-8620-2-ND	84	

CMX309FBC Series Oscillators

Specifications:

- Frequency Tolerance: ± 100 ppm (-20°C ~ 70°C)
- Operating Temperature: -40°C ~ 85°C
- Storage Temperature: -55°C ~ 125°C
- Supply Voltage: 3.3V ± 0.3 V
- Supply Current: 9mA Max.
- Duty @ CMOS Level (VDD/2): 40% ~ 60%
- Output Voltage: -0.4V (VOH) Min.
- Output Voltage: 0.4V (VOL) Max.
- Rise Time CMOS: 6ns Max.
- Fall Time CMOS: 6ns Max.
- Start-up Time: 4ms Max.
- Output Enable-Voltage: 2V (VIH) Min.
- Output Enable-Voltage: 0.8V (VIL) Max.
- Disable Current: 5mA Max.
- Aging (First Year): ± 5 ppm Max.



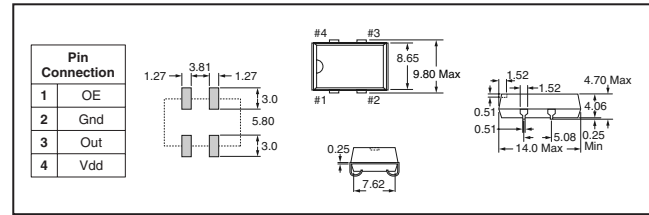
Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each	Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
1.54400	300-2101-1-ND	2.04 1.91 1.23	300-2101-2-ND	903.87	CMX309FBC1.544MTR
1.84320	300-2102-1-ND	2.04 1.91 1.23	—	—	CMX309FBC1.8432MTR
2.00000	300-2103-1-ND	2.04 1.91 1.23	300-2103-2-ND	903.87	CMX309FBC2.000MTR
2.45760	300-2105-1-ND	2.04 1.91 1.23	—	—	CMX309FBC2.4576MTR
3.68640	300-2106-1-ND	2.04 1.91 1.23	—	—	CMX309FBC3.6864MTR
4.00000	300-2107-1-ND	2.04 1.91 1.23	300-2107-2-ND	903.87	CMX309FBC4.000MTR
5.00000	300-2108-1-ND	2.04 1.91 1.23	300-2108-2-ND	903.87	CMX309FBC5.000MTR
8.00000	300-2109-1-ND	2.04 1.91 1.23	—	—	CMX309FBC8.000MTR
8.19200	300-2110-1-ND	2.04 1.91 1.23	—	—	CMX309FBC8.192MTR
9.83040	300-2111-1-ND	2.04 1.91 1.23	—	—	CMX309FBC9.8304MTR
14.74560	300-2118-1-ND	2.04 1.91 1.23	300-2118-2-ND	903.87	CMX309FBC14.7456MTR
16.00000	300-2119-1-ND	2.04 1.91 1.23	—	—	CMX309FBC16.000MTR
16.38400	300-2120-1-ND	2.04 1.91 1.23	300-2120-2-ND	903.87	CMX309FBC16.384MTR
18.43200	300-2121-1-ND	2.04 1.91 1.23	—	—	CMX309FBC18.432MTR
20.00000	300-2122-1-ND	2.04 1.91 1.23	—	—	CMX309FBC20.000MTR
24.00000	300-2123-1-ND	2.04 1.91 1.23	300-2123-2-ND	903.87	CMX309FBC24.000MTR

RoHS Compliant

1.00000	300-8366-1-ND	1.91 1.78 1.15	—	—	CMX309FBC1.000M-UT
1.84320	300-8368-1-ND	1.91 1.78 1.15	300-8368-2-ND	843.61	CMX309FBC1.8432M-UT
2.00000	300-8369-1-ND	1.91 1.78 1.15	—	—	CMX309FBC2.000M-UT
2.45760	300-8371-1-ND	1.91 1.78 1.15	—	—	CMX309FBC2.4576M-UT
3.68640	300-8372-1-ND	1.91 1.78 1.15	300-8372-2-ND	843.61	CMX309FBC3.6864M-UT
5.00000	300-8374-1-ND	1.91 1.78 1.15	—	—	CMX309FBC5.000M-UT
8.00000	300-8375-1-ND	1.91 1.78 1.15	300-8375-2-ND	843.61	CMX309FBC8.000M-UT
8.19200	300-8376-1-ND	1.91 1.78 1.15	300-8376-2-ND	843.61	CMX309FBC8.192M-UT
9.83040	300-8377-1-ND	1.91 1.78 1.15	—	—	CMX309FBC9.8304M-UT
14.31818	300-8383-1-ND	1.91 1.78 1.15	—	—	CMX309FBC14.31818M-UT
14.74560	300-8384-1-ND	1.91 1.78 1.15	300-8384-2-ND	843.61	CMX309FBC14.7456M-UT
16.00000	300-8385-1-ND	1.91 1.78 1.15	300-8385-2-ND	843.61	CMX309FBC16.000M-UT
16.38400	300-8386-1-ND	1.91 1.78 1.15	—	—	CMX309FBC16.384M-UT
18.43200	300-8387-1-ND	1.91 1.78 1.15	—	—	CMX309FBC18.432M-UT
24.00000	300-8389-1-ND	1.91 1.78 1.15	—	—	CMX309FBC24.000M-UT
25.00000	300-8391-1-ND	1.91 1.78 1.15	—	—	CMX309FBC25.000M-UT

CMX309HWC Series Oscillators

- Specifications: • Frequency Tolerance: ± 100 ppm (-20°C ~ 70°C) • Operating Temperature: -40°C ~ 85°C
- Storage Temperature: -55°C ~ 125°C • Supply Voltage: 5V ± 0.5 V • Supply Current: 35mA Max. • Duty @ TTL Level (1.4V): 45% ~ 55% • Duty @ CMOS Level (VDD/2): 40% ~ 60% • Output Voltage: -0.5V (VOH) Min. • Output Voltage: 0.5V (VOL) Max. • Output Load TTL: 10TTL Max. • Output Load CMOS: 50pF Max. • Rise Time TTL: 5ns Max. • Fall Time TTL: 5ns Max. • Rise Time CMOS: 7ns Max. • Fall Time CMOS: 7ns Max. • Start-up Time: 10ms Max. • Output Enable-Voltage: 2V (VIH) Min. • Output Enable-Voltage: 0.8V (VIL) Max. • Disable Current: 28mA Max. • Aging (First Year): ± 5 ppm Max.



Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each	Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
32.7680	300-7102-1-ND	2.18 2.04 1.31	300-7102-2-ND	964.13	CMX309HWC32.768MT
33.3333	300-7104-1-ND	2.18 2.04 1.31	—	—	CMX309HWC33.3333MT
44.2368	300-7108-1-ND	2.18 2.04 1.31	300-7108-2-ND	964.13	CMX309HWC44.2368MT
49.1520	300-7110-1-ND	2.18 2.04 1.31	—	—	CMX309HWC49.152MT
50.0000	300-7111-1-ND	2.32 2.16 1.39	300-7111-2-ND	1024.39	CMX309HWC50.000MT
53.1250	300-7112-1-ND	2.18 2.04 1.31	300-7112-2-ND	964.13	CMX309HWC53.125MT
60.0000	300-7113-1-ND	2.18 2.04 1.31	300-7113-2-ND	964.13	CMX309HWC60.000MT
66.6667	300-7116-1-ND	2.18 2.04 1.31	—	—	CMX309HWC66.6667MT

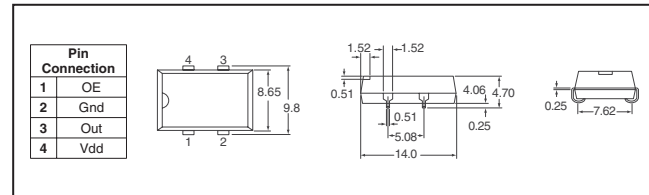
RoHS Compliant

32.0000	300-8624-1-ND	1.91 1.78 1.15	300-8624-2-ND	843.61	CMX309HWC32.000M-UT
32.7680	300-8625-1-ND	1.91 1.78 1.15	—	—	CMX309HWC32.768M-UT
33.0000	300-8626-1-ND	1.91 1.78 1.15	—	—	CMX309HWC33.000M-UT
48.0000	300-8629-1-ND	1.91 1.78 1.15	300-8629-2-ND	843.61	CMX309HWC48.000M-UT
50.0000	300-8631-1-ND	1.91 1.78 1.15	—	—	CMX309HWC50.000M-UT

CMX309HBC Series Oscillators

Specifications:

- Frequency Tolerance: ± 100 ppm (-20°C ~ 70°C) • Operating Temperature: -40°C ~ 85°C • Storage Temperature: -55°C ~ 125°C • Supply Voltage: 3.3V ± 0.3 V • Duty Cycle @ CMOS Level: 40% ~ 60% • Output Voltage: -0.4V (VOH) Min. • Output Voltage: 0.4V (VOL) Max. • Rise Time CMOS: 6ns Max. • Fall Time CMOS: 6ns Max. • Start-up Time: 10ms Max. • Output Enable-Voltage: 2.4V (VIH) Min. • Output Enable-Voltage: 0.6V (VIL) Max. • Output Load CMOS: 30pF Max. • Disable Current: 15mA Max. • Aging (First Year): ± 5 ppm Max.



Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each	Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
32.0000	300-2200-1-ND	2.04 1.91 1.23	300-2200-2-ND	903.87	CMX309HBC32.000MTR
32.7680	300-2201-1-ND	2.04 1.91 1.23	300-2201-2-ND	903.87	CMX309HBC32.768MTR
33.0000	300-2202-1-ND	2.04 1.91 1.23	300-2202-2-ND	903.87	CMX309HBC33.000MTR
33.3333	300-2203-1-ND	2.04 1.91 1.23	300-2203-2-ND	903.87	CMX309HBC33.3333MTR
36.8640	300-2204-1-ND	2.04 1.91 1.23	300-2204-2-ND	903.87	CMX309HBC36.864MTR
53.1250	300-2208-1-ND	2.04 1.91 1.23	300-2208-2-ND	903.87	CMX309HBC53.125MTR

RoHS Compliant

32.0000	300-8393-1-ND	1.91 1.78 1.15	—	—	CMX309HBC32.000M-UT
32.7680	300-8394-1-ND	1.91 1.78 1.15	300-8394-2-ND	843.61	CMX309HBC32.768M-UT
33.0000	300-8395-1-ND	1.91 1.78 1.15	—	—	CMX309HBC33.000M-UT
33.3333	300-8396-1-ND	1.91 1.78 1.15	300-8396-2-ND	843.61	CMX309HBC33.3333M-UT
40.0000	300-8398-1-ND	1.91 1.78 1.15	300-8398-2-ND	843.61	CMX309HBC40.000M-UT
48.0000	300-8399-1-ND	1.91 1.78 1.15	300-8399-2-ND	843.61	CMX309HBC48.000M-UT

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