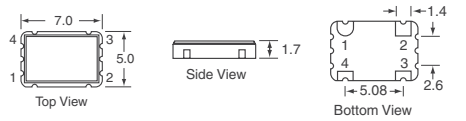
ECS INC. INTERNATIONAL Surface Mount Oscillators

Digi-Reel®

5.0 x 7.0 x 1.7mm Packaging

RoHS COMPLIANT



Pin Connection	
1	Tri-State
2	GND
3	Output
4	VDD

Note: Frequency stability is inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration

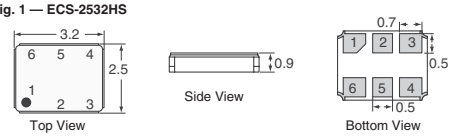
Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel Pricing† 1,000	ECS Part No.
ECS-3951C — 5.0V, 0°C ~ 70°C, ±100ppm						
1.843200	XC653CT-ND	5.89	5.31	4.42	2945.67	ECS-3951C-018-TR
3.686400	XC654CT-ND	5.89	5.31	4.42	2945.67	ECS-3951C-036-TR
12.000000	XC655CT-ND	5.89	5.31	4.42	2945.67	ECS-3951C-120-TR
16.000000	XC656CT-ND	5.89	5.31	4.42	2945.67	ECS-3951C-160-TR
20.000000	XC657CT-ND	5.89	5.31	4.42	2945.67	ECS-3951C-200-TR
33.000000	XC658CT-ND	5.89	5.31	4.42	2945.67	ECS-3951C-330-TR
40.000000	XC659CT-ND	5.89	5.31	4.42	2945.67	ECS-3951C-400-TR
50.000000	XC660CT-ND	5.89	5.31	4.42	2945.67	ECS-3951C-500-TR
65.000000	XC661CT-ND	5.89	5.31	4.42	2945.67	ECS-3951C-650-TR
66.666000	XC662CT-ND	5.89	5.31	4.42	2945.67	ECS-3951C-666-TR
ECS-3951M-B — 5.0V, -10°C ~ 70°C, ±50ppm						
1.843200	XC780CT-ND	5.89	5.31	4.42	2945.67	ECS-3951M-018-B-TR
3.686400	XC781CT-ND	5.89	5.31	4.42	2945.67	ECS-3951M-036-B-TR
12.000000	XC782CT-ND	5.89	5.31	4.42	2945.67	ECS-3951M-120-B-TR
16.000000	XC783CT-ND	5.89	5.31	4.42	2945.67	ECS-3951M-160-B-TR
20.000000	XC784CT-ND	5.89	5.31	4.42	2945.67	ECS-3951M-200-B-TR
33.000000	XC785CT-ND	5.89	5.31	4.42	2945.67	ECS-3951M-330-B-TR
40.000000	XC786CT-ND	5.89	5.31	4.42	2945.67	ECS-3951M-400-B-TR
50.000000	XC787CT-ND	5.89	5.31	4.42	2945.67	ECS-3951M-500-B-TR
65.000000	XC788CT-ND	5.89	5.31	4.42	2945.67	ECS-3951M-650-B-TR
66.666000	XC789CT-ND	5.89	5.31	4.42	2945.67	ECS-3951M-666-B-TR
ECS-3951M-BN Industrial Temperature — 5.0V, -40°C ~ 85°C, ±50ppm						
1.843200	XC291CT-ND	6.23	5.61	4.68	3113.99	ECS-3951M-018-BN-TR
3.579545	XC292CT-ND	6.23	5.61	4.68	3113.99	ECS-3951M-035-BN-TR
3.686400	XC293CT-ND	6.23	5.61	4.68	3113.99	ECS-3951M-036-BN-TR
4.000000	XC294CT-ND	6.23	5.61	4.68	3113.99	ECS-3951M-040-BN-TR
8.000000	XC295CT-ND	6.23	5.61	4.68	3113.99	ECS-3951M-080-BN-TR
10.000000	XC296CT-ND	6.23	5.61	4.68	3113.99	ECS-3951M-100-BN-TR
12.000000	XC297CT-ND	6.23	5.61	4.68	3113.99	ECS-3951M-120-BN-TR
16.000000	XC298CT-ND	6.23	5.61	4.68	3113.99	ECS-3951M-160-BN-TR
20.000000	XC299CT-ND	6.23	5.61	4.68	3113.99	ECS-3951M-200-BN-TR
24.000000	XC300CT-ND	6.23	5.61	4.68	3113.99	ECS-3951M-240-BN-TR
25.000000	XC321CT-ND	6.23	5.61	4.68	3113.99	ECS-3951M-250-BN-TR
32.000000	XC322CT-ND	6.23	5.61	4.68	3113.99	ECS-3951M-320-BN-TR
40.000000	XC323CT-ND	6.23	5.61	4.68	3113.99	ECS-3951M-400-BN-TR
50.000000	XC324CT-ND	6.23	5.61	4.68	3113.99	ECS-3951M-500-BN-TR
66.666000	XC325CT-ND	6.23	5.61	4.68	3113.99	ECS-3951M-666-BN-TR
80.000000	XC326CT-ND	6.23	5.61	4.68	3113.99	ECS-3951M-800-BN-TR
100.000000	XC327CT-ND	6.23	5.61	4.68	3113.99	ECS-3951M-1000-BN-TR
ECS-3951M-AU Automotive Temperature — 5.0V, -55°C ~ 125°C, ±100ppm						
1.843200	XC1453CT-ND	6.23	5.61	4.68	3113.99	ECS-3951M-018-AU-TR
4.000000	XC1454CT-ND	6.23	5.61	4.68	3113.99	ECS-3951M-040-AU-TR
8.000000	XC1455CT-ND	6.23	5.61	4.68	3113.99	ECS-3951M-080-AU-TR
10.000000	XC1456CT-ND	6.23	5.61	4.68	3113.99	ECS-3951M-100-AU-TR
16.000000	XC1457CT-ND	6.23	5.61	4.68	3113.99	ECS-3951M-160-AU-TR
20.000000	XC1458CT-ND	6.23	5.61	4.68	3113.99	ECS-3951M-200-AU-TR
40.000000	XC1459CT-ND	6.23	5.61	4.68	3113.99	ECS-3951M-400-AU-TR
80.000000	XC1460CT-ND	6.23	5.61	4.68	3113.99	ECS-3951M-800-AU-TR
100.000000	XC1461CT-ND	7.34	6.61	5.51	3669.46	ECS-3951M-1000-AU-TR
ECS-3953C — 3.3V, 0°C ~ 70°C, ±100ppm						
20.000000	XC721CT-ND	5.89	5.31	4.42	2945.67	ECS-3953C-200-TR
24.000000	XC722CT-ND	5.89	5.31	4.42	2945.67	ECS-3953C-240-TR
25.000000	XC723CT-ND	5.89	5.31	4.42	2945.67	ECS-3953C-250-TR
32.000000	XC724CT-ND	5.89	5.31	4.42	2945.67	ECS-3953C-320-TR
40.000000	XC725CT-ND	5.89	5.31	4.42	2945.67	ECS-3953C-400-TR
50.000000	XC726CT-ND	5.89	5.31	4.42	2945.67	ECS-3953C-500-TR
66.666000	XC727CT-ND	5.89	5.31	4.42	2945.67	ECS-3953C-666-TR
80.000000	XC728CT-ND	5.89	5.31	4.42	2945.67	ECS-3953C-800-TR
ECS-3953M-B — 3.3V, -10°C ~ 70°C, ±50ppm						
1.843200	XC284CT-ND	5.89	5.31	4.42	2945.67	ECS-3953M-018-B-TR
3.686400	XC285CT-ND	5.89	5.31	4.42	2945.67	ECS-3953M-036-B-TR
4.000000	XC286CT-ND	5.89	5.31	4.42	2945.67	ECS-3953M-040-B-TR
8.000000	XC287CT-ND	5.89	5.31	4.42	2945.67	ECS-3953M-080-B-TR
10.000000	XC288CT-ND	5.89	5.31	4.42	2945.67	ECS-3953M-100-B-TR
12.000000	XC289CT-ND	5.89	5.31	4.42	2945.67	ECS-3953M-120-B-TR
16.000000	XC290CT-ND	5.89	5.31	4.42	2945.67	ECS-3953M-160-B-TR
20.000000	XC790CT-ND	5.89	5.31	4.42	2945.67	ECS-3953M-200-B-TR
24.000000	XC791CT-ND	5.89	5.31	4.42	2945.67	ECS-3953M-240-B-TR
25.000000	XC792CT-ND	5.89	5.31	4.42	2945.67	ECS-3953M-250-B-TR
32.000000	XC793CT-ND	5.89	5.31	4.42	2945.67	ECS-3953M-320-B-TR
40.000000	XC794CT-ND	5.89	5.31	4.42	2945.67	ECS-3953M-400-B-TR
48.000000	XC1016CT-ND	5.89	5.31	4.42	2945.67	ECS-3953M-480-B-TR
50.000000	XC795CT-ND	5.89	5.31	4.42	2945.67	ECS-3953M-500-B-TR
66.666000	XC796CT-ND	5.89	5.31	4.42	2945.67	ECS-3953M-666-B-TR
80.000000	XC797CT-ND	5.89	5.31	4.42	2945.67	ECS-3953M-800-B-TR
ECS-3953M-BN Industrial Temperature — 3.3V, -40°C ~ 85°C, ±50ppm						
1.843200	XC329CT-ND	6.23	5.61	4.68	3113.99	ECS-3953M-018-BN-TR
3.579545	XC330CT-ND	6.23	5.61	4.68	3113.99	ECS-3953M-035-BN-TR
3.686400	XC331CT-ND	6.23	5.61	4.68	3113.99	ECS-3953M-036-BN-TR
4.000000	XC332CT-ND	6.23	5.61	4.68	3113.99	ECS-3953M-040-BN-TR
8.000000	XC333CT-ND	6.23	5.61	4.68	3113.99	ECS-3953M-080-BN-TR
10.000000	XC334CT-ND	6.23	5.61	4.68	3113.99	ECS-3953M-100-BN-TR
12.000000	XC335CT-ND	6.23	5.61	4.68	3113.99	ECS-3953M-120-BN-TR
16.000000	XC336CT-ND	6.23	5.61	4.68	3113.99	ECS-3953M-160-BN-TR
20.000000	XC337CT-ND	6.23	5.61	4.68	3113.99	ECS-3953M-200-BN-TR
24.000000	XC338CT-ND	6.23	5.61	4.68	3113.99	ECS-3953M-240-BN-TR
25.000000	XC339CT-ND	6.23	5.61	4.68	3113.99	ECS-3953M-250-BN-TR
32.000000	XC340CT-ND	6.23	5.61	4.68	3113.99	ECS-3953M-320-BN-TR
40.000000	XC341CT-ND	6.23	5.61	4.68	3113.99	ECS-3953M-400-BN-TR
50.000000	XC342CT-ND	6.23	5.61	4.68	3113.99	ECS-3953M-500-BN-TR
66.666000	XC343CT-ND	6.23	5.61	4.68	3113.99	ECS-3953M-666-BN-TR
80.000000	XC344CT-ND	6.23	5.61	4.68	3113.99	ECS-3953M-800-BN-TR
100.000000	XC345CT-ND	6.23	5.61	4.68	3113.99	ECS-3953M-1000-BN-TR
125.000000	XC346CT-ND	6.23	5.61	4.68	3113.99	ECS-3953M-1250-BN-TR
ECS-3953M-AU Automotive Temperature — 3.3V, -55°C ~ 125°C, ±100ppm						
1.843200	XC1442CT-ND	6.23	5.61	4.68	3113.99	ECS-3953M-018-AU-TR
4.000000	XC1443CT-ND	6.23	5.61	4.68	3113.99	ECS-3953M-040-AU-TR
8.000000	XC1444CT-ND	6.23	5.61	4.68	3113.99	ECS-3953M-080-AU-TR
10.000000	XC1445CT-ND	6.23	5.61	4.68	3113.99	ECS-3953M-100-AU-TR
16.000000	XC1446CT-ND	6.23	5.61	4.68	3113.99	ECS-3953M-160-AU-TR
20.000000	XC1447CT-ND	6.23	5.61	4.68	3113.99	ECS-3953M-200-AU-TR
24.000000	XC1448CT-ND	6.23	5.61	4.68	3113.99	ECS-3953M-240-AU-TR
40.000000	XC1449CT-ND	6.23	5.61	4.68	3113.99	ECS-3953M-400-AU-TR
80.000000	XC1450CT-ND	6.23	5.61	4.68	3113.99	ECS-3953M-800-AU-TR
100.000000	XC1451CT-ND	7.34	6.61	5.51	3669.46	ECS-3953M-1000-AU-TR
125.000000	XC1452CT-ND	8.62	7.76	6.47	4309.09	ECS-3953M-1250-AU-TR

† For Tape and Reel part number, change CT-ND to TR-ND.

Subminiature Clock Oscillators

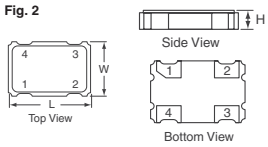
RoHS COMPLIANT

Fig. 1 — ECS-2532HS



Pin Connection	
1	Tri-State
2	No Connect
3	Ground
4	Output
5	No Connect
6	VDD

Fig. 2



Pin Connection	
1	Tri-State
2	Ground
3	Output
4	VCC

Dimensions	L	W	H
ECS-3963	5.0	3.2	1.0
ECS-3525	5.0	3.2	1.3
ECS-3518	5.0	3.2	1.3
ECS-2033	2.5	2.0	0.9
ECS-2018	2.5	2.0	0.9

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel† Qty.	Pricing	ECS Part No.
ECS-2532HS High Stability — 3.3V, -30°C ~ 85°C, ±10ppm								
1	20.000000	XC1476CT-ND	15.49	13.94	11.62	500	3871.45	ECS-2532HS-200-3-G
	22.118400	XC1477CT-ND	15.49	13.94	11.62	500	3871.45	ECS-2532HS-221-3-G
	24.000000	XC1478CT-ND	15.49	13.94	11.62	500	3871.45	ECS-2532HS-240-3-G
	26.000000	XC1479CT-ND	15.49	13.94	11.62	500	3871.45	ECS-2532HS-260-3-G
	27.000000	XC1480CT-ND	15.49	13.94	11.62	500	3871.45	ECS-2532HS-270-3-G
	32.000000	XC1481CT-ND	15.49	13.94	11.62	500	3871.45	ECS-2532HS-320-3-G
	40.000000	XC1482CT-ND	18.18	16.37	13.64	500	4544.75	ECS-2532HS-400-3-G
ECS-3963-BN Industrial Temperature — 3.0V, -40°C ~ 85°C, ±50ppm								
2	4.00000	XC1028CT-ND	3.33	3.00	2.50	1,000	1666.41	ECS-3963-040-BN-TR
	8.00000	XC1029CT-ND	3.33	3.00	2.50	1,000	1666.41	ECS-3963-080-BN-TR
	10.00000	XC1030CT-ND	3.33	3.00	2.50	1,000	1666.41	ECS-3963-100-BN-TR
	12.00000	XC1031CT-ND	3.33	3.00	2.50	1,000	1666.41	ECS-3963-120-BN-TR
	14.31818	XC1032CT-ND	3.33	3.00	2.50	1,000	1666.41	ECS-3963-143-BN-TR
	20.00000	XC1033CT-ND	3.33	3.00	2.50	1,000	1666.41	ECS-3963-200-BN-TR
	24.00000	XC1034CT-ND	3.33	3.00	2.50	1,000	1666.41	ECS-3963-240-BN-TR
	25.00000	XC1035CT-ND	3.33	3.00	2.50	1,000	1666.41	ECS-3963-250-BN-TR
	27.00000	XC1655CT-ND	3.33	3.00	2.50	1,000	1666.41	ECS-3963-270-BN-TR
	32.00000	XC1036CT-ND	3.33	3.00	2.50	1,000	1666.41	ECS-3963-320-BN-TR
	33.33300	XC1037CT-ND	3.33	3.00	2.50	1,000	1666.41	ECS-3963-333-BN-TR
	40.00000	XC1038CT-ND	3.33	3.00	2.50	1,000	1666.41	ECS-3963-400-BN-TR
	48.00000	XC1039CT-ND	3.33	3.00	2.50	1,000	1666.41	ECS-3963-480-BN-TR
	50.00000	XC1040CT-ND	3.33	3.00	2.50	1,000	1666.41	ECS-3963-500-BN-TR
	60.00000	XC1041CT-ND	3.67	3.31	2.76	1,000	1834.73	ECS-3963-600-BN-TR
	66.66600	XC1043CT-ND	3.67	3.31	2.76	1,000	1834.73	ECS-3963-666-BN-TR
	80.00000	XC1044CT-ND	3.67	3.31	2.76	1,000	1834.73	ECS-3963-800-BN-TR
	100.00000	XC1045CT-ND	6.70	6.03	5.03	1,000	3349.65	ECS-3963-1000-BN-TR
	125.00000	XC1046CT-ND	9.06	8.15	6.80	1,000	4527.92	ECS-3963-1250-BN-TR
ECS-3525-B — 2.5V, 0°C ~ 70°C, ±50ppm								
2	4.00000	XC1047CT-ND	3.67	3.31	2.76	1,000	1834.73	ECS-3525-040-B-TR
	8.00000	XC1048CT-ND	3.67	3.31	2.76	1,000	1834.73	ECS-3525-080-B-TR
	10.00000	XC1049CT-ND	3.67	3.31	2.76	1,000	1834.73	ECS-3525-100-B-TR
	12.00000	XC1050CT-ND	3.67	3.31	2.76	1,000	1834.73	ECS-3525-120-B-TR
	14.31818	XC1051CT-ND	3.67	3.31	2.76	1,000	1834.73	ECS-3525-143-B-TR
	20.00000	XC1052CT-ND	3.67	3.31	2.76	1,000	1834.73	ECS-3525-200-B-TR
	24.00000	XC1053CT-ND	3.67	3.31	2.76	1,000	1834.73	ECS-3525-240-B-TR
	25.00000	XC1054CT-ND	3.67	3.31	2.76	1,000	1834.73	ECS-3525-250-B-TR
	32.00000	XC1055CT-ND	3.67	3.31	2.76	1,000	1834.73	ECS-3525-320-B-TR
	33.33300	XC1056CT-ND	3.67	3.31	2.76	1,000	1834.73	ECS-3525-333-B-TR
	40.00000	XC1057CT-ND	3.67	3.31	2.76	1,000	1834.73	ECS-3525-400-B-TR
	48.00000	XC1058CT-ND	3.67	3.31	2.76	1,000	1834.73	ECS-3525-480-B-TR
	50.00000	XC1059CT-ND	3.67	3.31	2.76	1,000	1834.73	ECS-3525-500-B-TR
	60.00000	XC1060CT-ND	3.67	3.31	2.76	1,000	1834.73	ECS-3525-600-B-TR
	64.00000	XC1061CT-ND	3.67	3.31	2.76	1,000	1834.73	ECS-3525-640-B-TR
	66.66600	XC1062CT-ND	3.67	3.31	2.76	1,000	1834.73	ECS-3525-666-B-TR
	80.00000	XC1063CT-ND	3.67	3.31	2.76	1,000	2188.21	ECS-3525-800-B-TR
	100.00000	XC1064CT-ND	6.70	6.03	5.03	1,000	3349.65	ECS-3525-1000-B-TR
	125.00000	XC1065CT-ND	9.06	8.15	6.80	1,000	4527.92	ECS-3525-1250-B-TR
ECS-3518-B — 1.8V, 0°C ~ 70°C, ±50ppm								
2	4.00000	XC1066CT-ND	3.67	3.31	2.76	1,000	1834.73	ECS-3518-040-B-TR
	8.00000	XC1067CT-ND	3.67	3.31	2.76	1,000	1834.73	ECS-3518-080-B-TR
	10.00000	XC1068CT-ND	3.67	3.31	2.76	1,000	1834.73	ECS-3518-100-B-TR
	12.00000	XC1069CT-ND	3.67	3.31	2.76	1,000	1834.73	ECS-3518-120-B-TR
	14.31818	XC1070CT-ND	3.67	3.31	2.76	1,000	1834.73	ECS-3518-143-B-TR

† For Tape and Reel part number, change CT-ND to TR-ND.

(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.

Free shipping on orders over $200 CAD! All prices in Canadian dollars and include duty and brokerage fees.