

Maximum ESR (Ohm)	Load Cap.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel Pricing		ECS Part No.
				1	10	100	500		1,000		
80	9pF	16.000000	XC1611CT-ND	1.32	1.19	1.00	.80	XC1611TR-ND	660.66	ECS-160-9-42-CKM-TR	
60	13pF	24.000000	XC1613CT-ND	1.32	1.19	1.00	.80	XC1613TR-ND	660.66	ECS-240-13-42-CKM-TR	
60	13pF	26.000000	XC1614CT-ND	1.32	1.19	1.00	.80	XC1614TR-ND	660.66	ECS-260-13-42-CKM-TR	
60	13pF	32.000000	XC1615CT-ND	1.39	1.26	1.05	.84	XC1615TR-ND	696.70	ECS-320-13-42-CKM-TR	
ECX-32, -20°C ~ 70°C, ±50ppm, 3.2 x 2.5 x .70mm											
100	20pF	16.000000	XC1137CT-ND	2.86	2.58	2.15	1.72	XC1137TR-ND	1429.43	ECS-160-20-33-TR	
100	20pF	18.432000	XC1138CT-ND	2.86	2.58	2.15	1.72	XC1138TR-ND	1429.43	ECS-184-20-33-TR	
100	20pF	19.660800	XC1139CT-ND	2.86	2.58	2.15	1.72	XC1139TR-ND	1429.43	ECS-196-20-33-TR	
100	20pF	20.000000	XC1140CT-ND	2.86	2.58	2.15	1.72	XC1140TR-ND	1429.43	ECS-200-20-33-TR	
100	20pF	24.000000	XC1141CT-ND	2.86	2.58	2.15	1.72	XC1141TR-ND	1429.43	ECS-240-20-33-TR	
100	20pF	25.000000	XC1142CT-ND	2.86	2.58	2.15	1.72	XC1142TR-ND	1429.43	ECS-250-20-33-TR	
100	20pF	27.000000	XC1143CT-ND	2.86	2.58	2.15	1.72	XC1143TR-ND	1429.43	ECS-270-20-33-TR	
50	Series	30.000000	XC1145CT-ND	2.86	2.58	2.15	1.72	XC1145TR-ND	1429.43	ECS-300-S-33-TR	
50	20pF	30.000000	XC1144CT-ND	2.86	2.58	2.15	1.72	XC1144TR-ND	1429.43	ECS-300-20-33-TR	
50	Series	32.000000	XC1147CT-ND	2.86	2.58	2.15	1.72	XC1147TR-ND	1429.43	ECS-320-S-33-TR	
50	20pF	32.000000	XC1146CT-ND	2.86	2.58	2.15	1.72	XC1146TR-ND	1429.43	ECS-320-20-33-TR	
50	20pF	36.000000	XC1148CT-ND	2.86	2.58	2.15	1.72	XC1148TR-ND	1429.43	ECS-360-20-33-TR	
50	20pF	40.000000	XC1150CT-ND	2.86	2.58	2.15	1.72	XC1150TR-ND	1429.43	ECS-400-20-33-TR	
ECX-2236 for Bluetooth™ and Zigbee Applications, ±10/±10, -20°C ~ 70°C, 2.5 x 2.0 x .55mm											
100	8pF	16.000000	XC1552CT-ND	2.76	2.49	2.08	1.66	XC1552TR-ND	1381.38	ECS-160-8-36CKM	
100	8pF	18.432000	XC1553CT-ND	2.76	2.49	2.08	1.66	XC1553TR-ND	1381.38	ECS-184-8-36CKM	
100	8pF	19.200000	XC1554CT-ND	2.76	2.49	2.08	1.66	XC1554TR-ND	1381.38	ECS-192-8-36CKM	
100	8pF	20.000000	XC1556CT-ND	2.76	2.49	2.08	1.66	XC1556TR-ND	1381.38	ECS-200-8-36CKM	
100	8pF	24.000000	XC1557CT-ND	2.76	2.49	2.08	1.66	XC1557TR-ND	1381.38	ECS-240-8-36CKM	
100	8pF	25.000000	XC1559CT-ND	2.76	2.49	2.08	1.66	XC1559TR-ND	1381.38	ECS-250-8-36CKM	
100	8pF	26.000000	XC1560CT-ND	2.76	2.49	2.08	1.66	XC1560TR-ND	1381.38	ECS-260-8-36CKM	
100	8pF	27.000000	XC1561CT-ND	2.76	2.49	2.08	1.66	XC1561TR-ND	1381.38	ECS-270-8-36CKM	
100	8pF	30.000000	XC1562CT-ND	2.76	2.49	2.08	1.66	XC1562TR-ND	1381.38	ECS-300-8-36CKM	
100	8pF	32.000000	XC1563CT-ND	2.76	2.49	2.08	1.66	XC1563TR-ND	1381.38	ECS-320-8-36CKM	
100	8pF	48.000000	XC1566CT-ND	2.76	2.49	2.08	1.66	XC1566TR-ND	1381.38	ECS-480-8-36CKM	
100	8pF	80.000000	XC1567CT-ND	4.30	3.87	3.23	2.59	XC1567TR-ND	2150.15	ECS-800-8-36CKM	
ECX-1637 for Bluetooth™ and Zigbee Applications, ±10/±10, -20°C ~ 70°C, 2.0 x 1.6 x .45mm											
100	8pF	24.000000	XC1543CT-ND	3.10	2.79	2.33	1.86	XC1543TR-ND	1549.55	ECS-240-8-37CKM	
100	8pF	26.000000	XC1545CT-ND	3.10	2.79	2.33	1.86	XC1545TR-ND	1549.55	ECS-260-8-37CKM	
100	8pF	27.000000	XC1546CT-ND	3.10	2.79	2.33	1.86	XC1546TR-ND	1549.55	ECS-270-8-37CKM	
100	8pF	32.000000	XC1547CT-ND	3.10	2.79	2.33	1.86	XC1547TR-ND	1549.55	ECS-320-8-37CKM	

D

32.768kHz Crystals and Oscillators

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Dimensions (mm)			
Mfg. Part No.	L	W	H
ECS-327SMO	6.5	4.0	2.0
ECS-327KO	4.0	2.5	0.8

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

Fig. 6

Dimensions (mm)			
Mfg. Part No.	L	D	LS
ECS-3X8	8.2	3.1	1.1
ECS-3X8X	8.2	3.1	1.1
ECS-327-12.5-13	6.2	2.1	0.7
ECS-327-12.5-13X	6.2	2.1	0.7
ECS-327-8-14	5.1	1.5	0.45
ECS-327-8-14X	5.1	1.5	0.45

Fig.	ESR Maximum (Ω)	Load Capacitance (pF)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel		ECS Part No.
				1	10	100	500		Qty.	Pricing	
Surface Mount Crystals											
1	50k	6.0	XC746CT-ND	.86	.73	.58		XC746TR-ND	3,000	448.45/M	ECS-327-6-17-TR
	50k	6.0	XC1307CT-ND	1.05	.92	.64		XC1307TR-ND	3,000	378.38/M	ECS-327-6-17X-TR
	50k	12.5	XC488CT-ND	.86	.73	.58		XC488TR-ND	3,000	448.45/M	ECS-327-12.5-17-TR
	50k	12.5	XC1195CT-ND	1.05	.92	.64		XC1195TR-ND	3,000	378.38/M	ECS-327-12.5-17X-TR
	65k	7.0	XC1657CT-ND	.72	.65	.55		XC1657TR-ND	3,000	360.36/M	ECS-327-7-38-TR
2	65k	12.5	XC1616CT-ND	.72	.65	.55		XC1616TR-ND	3,000	360.36/M	ECS-327-12.5-38
	65k	12.5	XC1658CT-ND	.77	.70	.58		XC1658TR-ND	3,000	384.39/M	ECS-327-12.5-39-TR
3	70k	12.5	XC1656CT-ND	1.01	.91	.76		XC1656TR-ND	3,000	504.51/M	ECS-327-7-34B-TR
	70k	12.5	XC1617CT-ND	1.01	.91	.76		XC1617TR-ND	3,000	504.51/M	ECS-327-12.5-34B
Surface Mount Oscillators — RoHS Compliant											
5	—	—	XC777CT-ND	5.40	4.42	3.93		XC777TR-ND	2,000	2746.75/M	ECS-327SMO-TR
	—	—	XC1489CT-ND	5.74	5.17	4.31		XC1489TR-ND	1,000	2870.87	ECS-327KO-TR
Cylinder Type Crystals											
6	35k	12.5	X801-ND	.24	.22	.18		—	—	—	ECS-3X8
	35k	12.5	X1123-ND	.24	.22	.18		—	—	—	ECS-3X8X
	35k	12.5	X802-ND	.24	.22	.18		—	—	—	ECS-327-12.5-13
	35k	12.5	X1124-ND	.24	.22	.18		—	—	—	ECS-327-12.5-13X
	40k	8.0	X803-ND	2.11	1.90	1.52		—	—	—	ECS-327-8-14
	40k	8.0	X1125-ND	.50	.46	.37		—	—	—	—

◆ RoHS Compliant † Bulk

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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