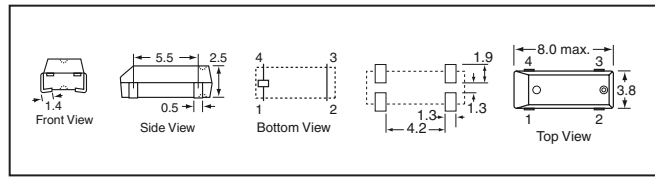
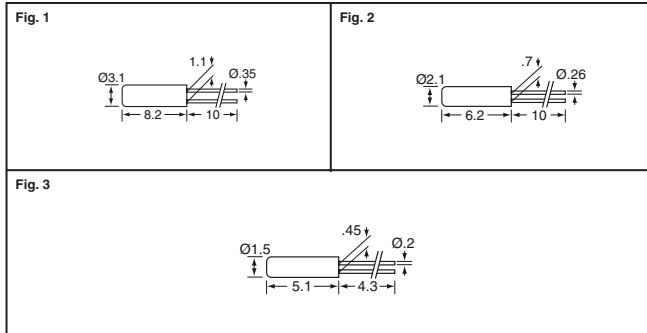


ECX-306



Cylinder Type

Specifications:
 • Frequency: 32.768kHz • Frequency Tolerance @ 25°C: ±20ppm • Drive Level: 1μW • Operating Temperature: -10°C - 60°C • Storage Temperature: -40°C - 85°C



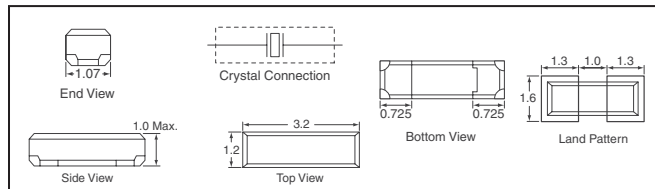
ECX-306 Series Specifications:

• Frequency: 32.768kHz • Frequency Tolerance @ 25°C: ±20ppm • Equivalent Series Resistance: 50kΩ Max. • Shunt Capacitance: 1.3pF Typ. • Drive Level: 1μW Max. • Calibration Tolerance: ±20 ppm @ 25°C • Temperature Coefficient: -0.040 ppm/°C Max. • Operating Temperature: -40°C - 85°C Max. • Storage Temperature: -55°C - 125°C • Q Factor: 50,000 Minimum • Turnover Temperature: 25°C (±5°C) • Insulation Resistance: 500MΩ Minimum, 100VDC • Motional Capacitance: 0.003pF Typ. • Aging (first year): ±3ppm Max. @ 25°C

Load Capacitance	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 3,000	ECS Part No.
		1	10	100			
6.0pF	XC746CT-ND	.57	.48	.39	XC746TR-ND	296.80/M	ECS-327-6-17-TR
12.5pF	XC488CT-ND	.57	.48	.39	XC488TR-ND	296.80/M	ECS-327-12.5-17-TR
RoHS Compliant							
6.0pF	XC1307CT-ND	.57	.48	.39	XC1307TR-ND	296.80/M	ECS-327-6-17X-TR
12.5pF	XC1195CT-ND	.57	.48	.39	XC1195TR-ND	296.80/M	ECS-327-12.5-17X-TR

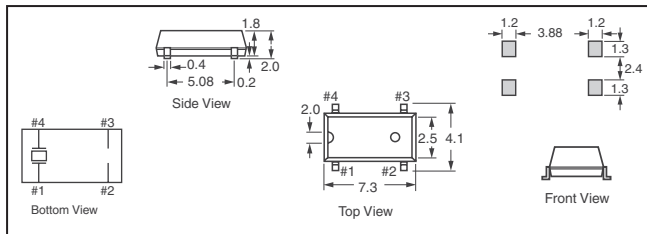
Fig.	Load Capacitance	Equivalent Series Resistance	Shunt Capacitance (Typ.)	Digi-Key Part No.	Price Each			ECS Part No.
					1	10	100	
1	12.5pF	35kΩ	1.6pF	X801-ND	.16	.15	.12	ECS-3X8
2	12.5pF	35kΩ	1.35pF	X802-ND	.16	.15	.12	ECS-327-12.5-13
3	8.0pF	40kΩ	1.00pF	X803-ND	1.39	1.26	1.01	ECS-327-8-14
RoHS Compliant								
1	12.5pF	35kΩ	1.6pF	X1123-ND	.16	.15	.12	ECS-3X8X
2	12.5pF	35kΩ	1.35pF	X1124-ND	.16	.15	.12	ECS-327-12.5-13X
3	8.0pF	40kΩ	1.00pF	X1125-ND	.33	.30	.24	ECS-327-8-14X

ECX-31



Load Capacitance	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 3,000	ECS Part No.
		1	10	100			
12.5pF	XC1085CT-ND	2.37	2.14	1.78	XC1085TR-ND	1184.55/M	ECS-327-12.5-32-TR
RoHS Compliant							

ECX-3TA



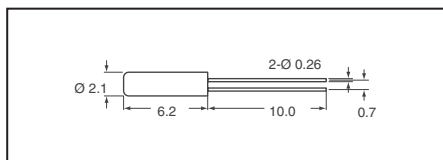
ECX-3TA Series Specifications:

• Frequency: 32.768kHz • Frequency Tolerance @ 25°C: ±20ppm • Equivalent Series Resistance: 50kΩ Max. • Shunt Capacitance: 2.0pF Typ. • Operating Temperature: -40°C - 85°C • Storage Temperature: -55°C - 125°C

Load Capacitance	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 3,000	ECS Part No.
		1	10	100			
12.5pF	X488CT-ND	.86	.72	.58	X488TR-ND	445.20/M	ECS-327-12.5-24-TR
12.5pF	X968CT-ND	.86	.72	.58	—	—	ECS-327-12.5-24X-TR
RoHS Compliant							

Quartz Crystals - ECS-31 Series

Specifications:
 • Frequency Tolerance: ±30ppm @ 25°C
 • Temperature Coefficient: -0.034ppm/°C
 • Operating Temperature: -10°C - 60°C
 • Storage Temperature: -40°C - 85°C
 • Equivalent Series Resistance (ESR): 30kΩ - 50kΩ Max.
 • Shunt Capacitance: .8pF - 1.7pF
 • Drive Level: 1μW Max.
 • Insulation Resistance: 500MΩ Min./DC 100V ±15V
 • Aging (First Year): ±5ppm Max. @ 25°C ±3°C



Frequency (kHz)	Load Capacitance	Digi-Key Part No.	Price Each				ECS Part No.
			1	10	100	500	
32.000	12.5pF	XC972-ND	.44	.40	.32	.28	ECS-320-12.5-13
40.000	12.5pF	XC973-ND	.44	.40	.32	.28	ECS-400-12.5-13
60.000	12.5pF	XC974-ND	.44	.40	.32	.28	ECS-600-12.5-13
65.536	12.5pF	XC975-ND	.44	.40	.32	.28	ECS-655-12.5-13
75.000	12.5pF	XC976-ND	.44	.40	.32	.28	ECS-750-12.5-13
100.000	12.5pF	XC977-ND	.44	.40	.32	.28	ECS-1.00-12.5-13
125.000	12.5pF	XC999-ND	.44	.40	.32	.28	ECS-1.25-12.5-13
153.600	12.5pF	XC978-ND	.44	.40	.32	.28	ECS-1.536-12.5-13
RoHS Compliant							
32.000	12.5pF	XC1392-ND	.44	.40	.32	.28	ECS-320-12.5-13X
65.536	12.5pF	XC1393-ND	.44	.40	.32	.28	ECS-655-12.5-13X
100.000	12.5pF	XC1394-ND	.44	.40	.32	.28	ECS-1.00-12.5-13X
153.600	12.5pF	XC1395-ND	.44	.40	.32	.28	ECS-1.536-12.5-13X

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