

ECS-23G SMD CRYSTAL

Request a Sample



The minature ECS-23G is a compact SMD Crystal. The industry standard $6 \times 3.5 \times 1.2$ mm ceramic package is ideal for GPS, WiFi, Telecom, and wireless charging applications.

ECS-23G SMD CRYSTAL

- Low Profile
- 6.0 x 3.5 mm Footprint
- Extended Temp. Range
- RoHS Compliant

DIMENSIONS (mm)

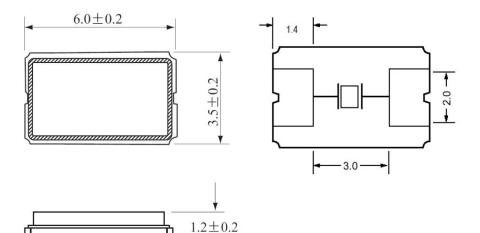


Figure 1) Top, Side, Botton	n views
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OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	ECS-23G			UNITS
		MIN	TYP	MAX	
Frequency		8.000		50.000	MHz
Mode of Oscillation	Fundamental				
Frequency Tolerance	@ +25°C (J)			± 20	ppm
Frequency Stability	-40 ~ +85°C (GN)			± 30	ppm
Shunt Capacitance	Со			7	pF
Load Capacitance	Specify in P/N		18		pF
Drive Level	DL		10	100	μW
Operating Temperature	Topr	-40		+85	°C
Storage Temperature	Tstg	-40		+90	°C
Aging (First Year)	@ +25°C ±3°C			±5	ppm
Insulation Resistance	@100 Vdc	500			МΩ

Frequency (MHz)	ESR Ω Max.
8.000 ~ 9.999	100
10.000 ~ 11.999	80
12.000 ~ 15.999	60
16.000 ~ 50.000	50

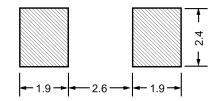


Figure 2) Suggested land pattern

PART NUMBERING GUIDE: Example ECS-240-18-23G-JGN-TR

ECS - FREQUENCY ABBREVIATION	LOAD CAPACITANCE	PACKAGE	Tolerance	CUSTOM OPTIO Stability	ND PA	ACKAGING
ECS 240 = 24.000 MHz See P/N Guide	18 = 18 pF	-23G = ECS-23G	A = ± 25 ppm J = ± 20 ppm *R = ± 15 ppm *C = ± 10 ppm	E = ± 50 ppm G = ± 30 ppm H = ± 25 ppm *T = ± 20 ppm *W = ± 15 ppm *K = ± 10 ppm	L = -10 ~ +70°C M = -20 ~ +70°C Y = -30 ~ +85°C N = -40 ~ +85°C	TR = Tape & Reel 1K/Reel

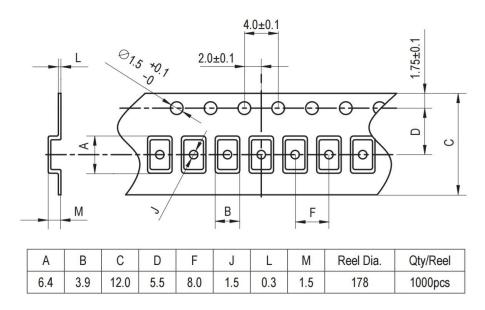
*Contact ECS for availability

Rev.2017





POCKET TAPE DIMENSIONS (mm)



SOLDER PROFILE		
Peak solder Temp +260°C Max 10 sec Max.		
2 Cycles Max.		
MSL 1, Lead Finish Au		

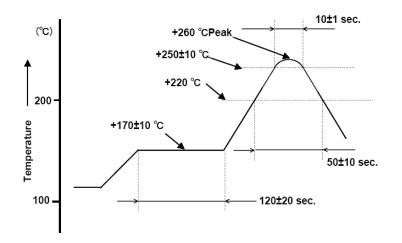


Figure	11	Suga	actad	Poflow	Drofila
Figure		$-$ SH $\alpha\alpha$	iestea	RPTIOW	Profile

DEVELOPED FREQUENCIES			
Abbreviation	Frequency (MHZ)		
080	8.000		
100	10.000		
120	12.000		
160	16.000		
184	18.432		
200	20.000		
240	24.000		
250	25.000		
480	48.000		