

Application

Used in PDA, DSC, DVC, Wireless communication, Mobile phone, PC, and more.

Features

- · 3225 size miniature and light SMD crystal resonator with a low profile of 0.7mm
- Wide frequency range form a comparatively low 12MHz up to 48MHz
- · High precision and high frequency stability
- · Excellent heat resistance and environmental characteristics
- · Automatic mounting and reflow soldering

Electrical Specifications

Frequency Range : 12 ~ 48MHz

Frequency Tolerance (at 25°C) : ±10ppm, ±30ppm

Frequency Stability Over Operating

Temperature Range

: ±10ppm ~ ±30ppm

Operating Temperature Range : -20° C ~ $+70^{\circ}$ C

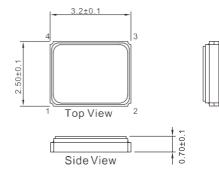
Shunt Capacitance(C₀) : 3pF Max.

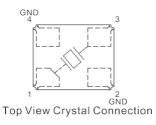
Drive Level : 1~200µW Max. (100µW Typical)

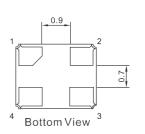
Load Capacitance : 10pF, 12pF Equivalent Series Resistance (ESR) : $60\Omega \& 80\Omega$

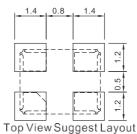
Aging (at 25°C) : ± 3 ppm / year Max. Storage Temperature Range : -55°C $\sim +125$ °C

Diagram









Dimensions : Millimetres

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Part Number Table

Description	Part Number			
Crystal Resonator, 3225, 12MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7U-12.00-10-10-80-B-10			
Crystal Resonator, 3225, 12MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7U-12.00-10-30-80-B-30			
Crystal Resonator, 3225, 12MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 12pF	MCSJK-7U-12.00-12-10-80-B-10			
Crystal Resonator, 3225, 12MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 12pF	MCSJK-7U-12.00-12-30-80-B-30			
Crystal Resonator, 3225, 12.288MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7U-12.288-10-10-80-B-10			
Crystal Resonator, 3225, 12.288MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7U-12.288-10-30-80-B-30			
Crystal Resonator, 3225, 12.288MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 12pF	MCSJK-7U-12.288-12-10-80-B-10			
Crystal Resonator, 3225, 12.288MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 12pF	MCSJK-7U-12.288-12-30-80-B-30			
Crystal Resonator, 3225, 13.56MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7U-13.56-10-10-80-B-10			
Crystal Resonator, 3225, 13.56MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7U-13.56-10-30-80-B-30			
Crystal Resonator, 3225, 13.56MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 12pF	MCSJK-7U-13.56-12-10-80-B-10			
Crystal Resonator, 3225, 13.56MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 12pF	MCSJK-7U-13.56-12-30-80-B-30			
Crystal Resonator, 3225, 14.31818MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7U-14.31818-10-10-80-B-10			
Crystal Resonator, 3225, 14.31818MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7U-14.31818-10-30-80-B-30			
Crystal Resonator, 3225, 14.31818MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 12pF	MCSJK-7U-14.31818-12-10-80-B-10			
Crystal Resonator, 3225, 14.31818MHz/ \pm 30ppm, 80 Ω , \pm 30ppm, -20 ~ +70°C, 12pF	MCSJK-7U-14.31818-12-30-80-B-30			
Crystal Resonator, 3225, 14.7456MHz/ \pm 10ppm, 80 Ω , \pm 10ppm, -20 ~ \pm 70°C, 10pF	MCSJK-7U-14.7456-10-10-80-B-10			
Crystal Resonator, 3225, 14.7456MHz/ \pm 30ppm, 80 Ω , \pm 30ppm, -20 ~ \pm 70°C, 10pF	MCSJK-7U-14.7456-10-30-80-B-30			
Crystal Resonator, 3225, 14.7456MHz/ \pm 10ppm, 80 Ω , \pm 10ppm, -20 ~ \pm 70°C, 12pF	MCSJK-7U-14.7456-12-10-80-B-10			
Crystal Resonator, 3225, 14.7456MHz/ \pm 30ppm, 80 Ω , \pm 30ppm, -20 ~ \pm 70°C, 12pF	MCSJK-7U-14.7456-12-30-80-B-30			
Crystal Resonator, 3225, 16MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7U-16.00-10-10-80-B-10			
Crystal Resonator, 3225, 16MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7U-16.00-10-30-80-B-30			
Crystal Resonator, 3225, 16MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 12pF	MCSJK-7U-16.00-12-10-80-B-10			
Crystal Resonator, 3225, 16MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 12pF	MCSJK-7U-16.00-12-30-80-B-30			
Crystal Resonator, 3225, 16.384MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7U-16.384-10-10-80-B-10			
Crystal Resonator, 3225, 16.384MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7U-16.384-10-30-80-B-30			
Crystal Resonator, 3225, 16.384MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 12pF	MCSJK-7U-16.384-12-10-80-B-10			
Crystal Resonator, 3225, 16.384MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 12pF	MCSJK-7U-16.384-12-30-80-B-30			
Crystal Resonator, 3225, 16.934MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7U-16.934-10-10-80-B-10			
Crystal Resonator, 3225, 16.934MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7U-16.934-10-30-80-B-30			
Crystal Resonator, 3225, 16.934MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 12pF	MCSJK-7U-16.934-12-10-80-B-10			
Crystal Resonator, 3225, 16.934MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 12pF	MCSJK-7U-16.934-12-30-80-B-30			
Crystal Resonator, 3225, 18.432MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7U-18.432-10-10-80-B-10			
Crystal Resonator, 3225, 18.432MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7U-18.432-10-30-80-B-30			
Crystal Resonator, 3225, 18.432MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 12pF	MCSJK-7U-18.432-12-10-80-B-10			
Crystal Resonator, 3225, 18.432MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 12pF	MCSJK-7U-18.432-12-30-80-B-30			
Crystal Resonator, 3225, 19.2MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7U-19.20-10-10-80-B-10			
Crystal Resonator, 3225, 19.2MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7U-19.20-10-30-80-B-30			

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Description	Part Number			
Crystal Resonator, 3225, 19.2MHz/ ±10ppm, 80Ω, ±10ppm, -20 ~ +70°C, 12pF	MCSJK-7U-19.20-12-10-80-B-10			
Crystal Resonator, 3225, 19.2MHz/ ±30ppm, 80Ω, ±30ppm, -20 ~ +70°C, 12pF	MCSJK-7U-19.20-12-30-80-B-30			
Crystal Resonator, 3225, 20MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7U-20.00-10-10-60-B-10			
Crystal Resonator, 3225, 20MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7U-20.00-10-30-60-B-30			
Crystal Resonator, 3225, 20MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 12pF	MCSJK-7U-20.00-12-10-60-B-10			
Crystal Resonator, 3225, 20MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 12pF	MCSJK-7U-20.00-12-30-60-B-30			
Crystal Resonator, 3225, 24MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7U-24.00-10-10-60-B-10			
Crystal Resonator, 3225, 24MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7U-24.00-10-30-60-B-30			
Crystal Resonator, 3225, 24MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 12pF	MCSJK-7U-24.00-12-10-60-B-10			
Crystal Resonator, 3225, 24MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 12pF	MCSJK-7U-24.00-12-30-60-B-30			
Crystal Resonator, 3225, 24.576MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7U-24.576-10-10-60-B-10			
Crystal Resonator, 3225, 24.576MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7U-24.576-10-30-60-B-30			
Crystal Resonator, 3225, 24.576MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 12pF	MCSJK-7U-24.576-12-10-60-B-10			
Crystal Resonator, 3225, 24.576MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 12pF	MCSJK-7U-24.576-12-30-60-B-30			
Crystal Resonator, 3225, 25MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7U-25.00-10-10-60-B-10			
Crystal Resonator, 3225, 25MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7U-25.00-10-30-60-B-30			
Crystal Resonator, 3225, 25MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 12pF	MCSJK-7U-25.00-12-10-60-B-10			
Crystal Resonator, 3225, 25MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 12pF	MCSJK-7U-25.00-12-30-60-B-30			
Crystal Resonator, 3225, 26MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7U-26.00-10-10-60-B-10			
Crystal Resonator, 3225, 26MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7U-26.00-10-30-60-B-30			
Crystal Resonator, 3225, 26MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 12pF	MCSJK-7U-26.00-12-10-60-B-10			
Crystal Resonator, 3225, 26MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 12pF	MCSJK-7U-26.00-12-30-60-B-30			
Crystal Resonator, 3225, 27MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7U-27.00-10-10-60-B-10			
Crystal Resonator, 3225, 27MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7U-27.00-10-30-60-B-30			
Crystal Resonator, 3225, 27MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 12pF	MCSJK-7U-27.00-12-10-60-B-10			
Crystal Resonator, 3225, 27MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 12pF	MCSJK-7U-27.00-12-30-60-B-30			
Crystal Resonator, 3225, 27.12MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7U-27.12-10-10-60-B-10			
Crystal Resonator, 3225, 27.12MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7U-27.12-10-30-60-B-30			
Crystal Resonator, 3225, 27.12MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 12pF	MCSJK-7U-27.12-12-10-60-B-10			
Crystal Resonator, 3225, 27.12MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 12pF	MCSJK-7U-27.12-12-30-60-B-30			
Crystal Resonator, 3225, 28.63636MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7U-28.63636-10-10-60-B-10			
Crystal Resonator, 3225, 28.63636MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7U-28.63636-10-30-60-B-30			
Crystal Resonator, 3225, 28.63636MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 12pF	MCSJK-7U-28.63636-12-10-60-B-10			
Crystal Resonator, 3225, 28.63636MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 12pF	MCSJK-7U-28.63636-12-30-60-B-30			
Crystal Resonator, 3225, 30MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7U-30.00-10-10-60-B-10			
Crystal Resonator, 3225, 30MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7U-30.00-10-30-60-B-30			
Crystal Resonator, 3225, 30MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 12pF	MCSJK-7U-30.00-12-10-60-B-10			
Crystal Resonator, 3225, 30MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 12pF	MCSJK-7U-30.00-12-30-60-B-30			

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Description	Part Number		
Crystal Resonator, 3225, 32MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7U-32.00-10-10-60-B-10		
Crystal Resonator, 3225, 32MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7U-32.00-10-30-60-B-30		
Crystal Resonator, 3225, 32MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 12pF	MCSJK-7U-32.00-12-10-60-B-10		
Crystal Resonator, 3225, 32MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 12pF	MCSJK-7U-32.00-12-30-60-B-30		
Crystal Resonator, 3225, 36MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7U-36.00-10-10-60-B-10		
Crystal Resonator, 3225, 36MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7U-36.00-10-30-60-B-30		
Crystal Resonator, 3225, 36MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 12pF	MCSJK-7U-36.00-12-10-60-B-10		
Crystal Resonator, 3225, 36MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 12pF	MCSJK-7U-36.00-12-30-60-B-30		
Crystal Resonator, 3225, 38.4MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7U-38.4-10-10-60-B-10		
Crystal Resonator, 3225, 38.4MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7U-38.4-10-30-60-B-30		
Crystal Resonator, 3225, 38.4MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 12pF	MCSJK-7U-38.4-12-10-60-B-10		
Crystal Resonator, 3225, 38.4MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 12pF	MCSJK-7U-38.4-12-30-60-B-30		
Crystal Resonator, 3225, 40MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7U-40.00-10-10-60-B-10		
Crystal Resonator, 3225, 40MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7U-40.00-10-30-60-B-30		
Crystal Resonator, 3225, 40MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 12pF	MCSJK-7U-40.00-12-10-60-B-10		
Crystal Resonator, 3225, 40MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 12pF	MCSJK-7U-40.00-12-30-60-B-30		
Crystal Resonator, 3225, 48MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 10pF	MCSJK-7U-48.00-10-10-60-B-10		
Crystal Resonator, 3225, 48MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 10pF	MCSJK-7U-48.00-10-30-60-B-30		
Crystal Resonator, 3225, 48MHz/ ±10ppm, 60Ω, ±10ppm, -20 ~ +70°C, 12pF	MCSJK-7U-48.00-12-10-60-B-10		
Crystal Resonator, 3225, 48MHz/ ±30ppm, 60Ω, ±30ppm, -20 ~ +70°C, 12pF	MCSJK-7U-48.00-12-30-60-B-30		



APPENDIX 1

	Full Material Composition Declaration							
	Part no.	MCSJK-7U- 25.00-12-30-60- B-30	Product mass	17.5286	(mg)			
	Product Composition information		Composition information					
	Product structure component name	Homogeneous material mass(mg)	Chemical substance name	CAS Number	Content (mg)	Content in Mass Percent (%)		
	LID	2.9	FE	1344-28-1	1.5688	49.16%		
1			Nickel	7440-02-0	0.7570	23.72%		
'			Co	7440-48-4	0.5610	17.58%		
			Mn	7439-96-5	0.0132	0.41%		
2	Blank	0.0006	SiO2	14808-60-7	0.0006	100.00%		
	PKG 12.692		AI2O3	1344-28-1	8.1824	64.47%		
			SiO2	14808-60-7	0.2412	1.90%		
		12.692	Cr2O3	7440-47-3	0.3288	2.59%		
3			Мо	7439-98-7	0.1922	1.51%		
			Cu	7440-50-8	0.1708	1.35%		
			FE	7439-89-6	1.3884	10.94%		
			Nickel	7440-02-0	1.1792	9.29%		
			Co	7440-48-4	0.4462	3.52%		
			others	NA	0.5628	4.43		
	Epoxy 1.056		Ag	7440-22-4	0.8448	80.00%		
4		Dodecane	112-40-3	0.1584	15.00%			
4		1.000	Aromatic Hydrocarbons	63231-51-6	0.0528	5.00%		
5	Conductive plastic	0.88	Ag	7440-22-4	0.88	100.00%		

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