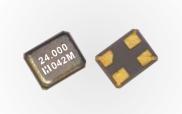


SMD CRYSTAL UNITS



• ETSB Series 1.6*1.2 Seam Sealing Crystal



FEATURES

- Very compact and thin (1.6*1.2*0.37mm max.)
- Frequency range of 24 to 96M with Fund
- Ideal for Wearable device and Short-range Wireless module
- Lead-free. Meets the requirements for re-flow profiling using lead-free solder

Electrical Specifications

Item	Туре	ETSB			
Frequency Range	F0	24 to 29.999MHz	30 to 39.999MHz	40 to 60.000MHz	60.1 to 96.00MHz
Mode of Vibration		Fundamental			
Load Capacitance	CL	8 to 16pF			
Frequency Tolerance	△F/ F0	±10ppm,±30ppm,±50ppm(At 25℃)			
Equivalent Series Resistance	ESR	100 Ω max.	80 Ω max.	60 Ω max.	40 Ω max.
Temperature Stability	TC	± 10 ppm, ± 15 ppm, ± 30 ppm(Refer to 25° C)			
Operating Temperature Range	Topr	- 20~+70°C, - 30~+85°C Option			
Storage Temperature Range	Tstg	- 55~+125℃			
Shunt Capacitance	C0	2pF max.			
Insulator Resistance	IR	500M Ω min. (At 100Vpc)			
Drive Level	DL	50μW (100μW max.)			
Aging	Fa	\pm 2ppm max. (At 25 $^{\circ}$ C ,First year)			
Packing Unit		3000pcs/reel			

 $^{**}Please\ contact\ us\ for\ inquiries\ regarding\ other\ Specifications$

Mechanical Dimensions(mm)



Top View

