

Tuning Fork

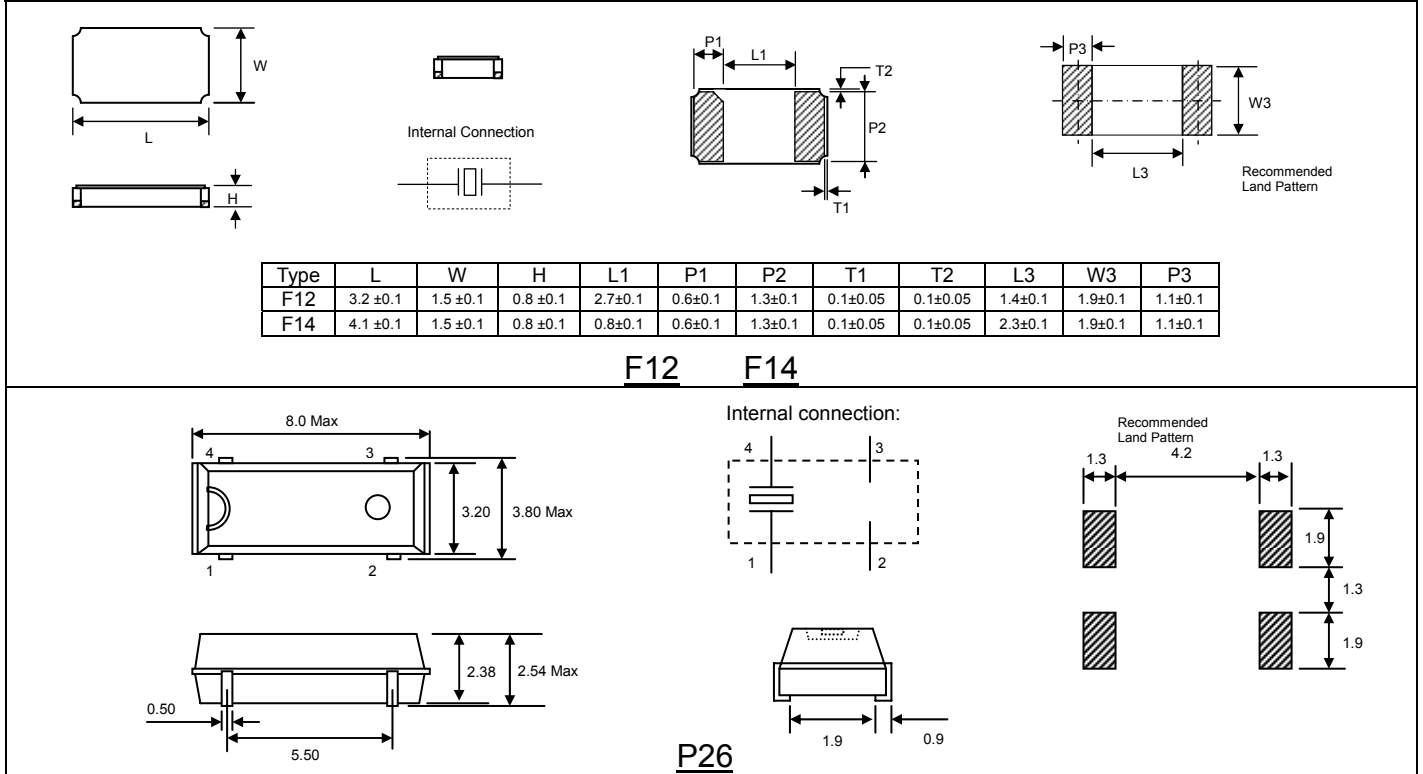
SMD F12, F14, P26

Feature & Applications:

- Tuning Fork crystal with ceramic packaged high-density SMD type
- 32.768 KHz
- Light weight, small and thin , high-stability
- For portable devices, automotive application and mobile telecommunication devices
- RoHS compliant

Outline Drawing

Dimension (Unit:mm)



General Characteristics

Parameter	Case	P26	F12	F14
Frequency Range		32.768 KHz		
Frequency Tolerance @25°C		± 30 or ± 20 ppm	± 20 ppm	
Parabolic Curvature Constant		-0.038ppm/°C ² max	-0.034ppm ± 0.006ppm/°C ²	
Operating Temperature		-10°C to +60°C	-40°C to +85°C	
Storage Temperature		-20°C to +70°C	-55°C to +125°C	
Load Capacitance		12.5pF typical		
Equivalent Series of Resistance		20K-50KΩ	70KΩ max	
Shunt Capacitance		2pF max	1.05pF typical	
Drive Level		1μW max	1μW max	
Insulation Resistance		500MΩ min / 100VDC	-	
Aging @25°C		±5ppm per year	±3ppm first year	

Part Number Guide:

X	-	32.7680	-	P26	-	18	-	30	-	50A	-	40	-	100	-	A1	-	5	-	N
Xtal		Frequency		Case Type		CL(pF)		Freq.Tol		Drift/Temp		ESR		DL		Osc.Mode		Shunt Cap		Option
		(KHz)		P26=P26 case		18=18pF		(ppm)		(ppm)		(Ω max)		(μWmax)		A1=Fund.		(pFmax)		N=None
		(MHz)				00=∞				A=-10~+60°C						A3=3 O/T				LL5.0 = Lead Length
										B=-20~+70°C						D1=DT-cut				