

# **ECS-31X SERIES**

ECS INC

The ECS-31X Series low frequency tuning fork crystals offer low frequencies in a compact thru hole package.

Request a Sample

# **OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS**



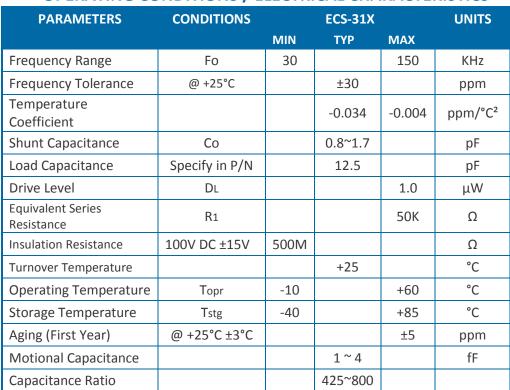
- Miniature size
- Cost effective
- Long term stability
- PbFree/RoHS Compliant

# T (C) -20 -10 0 10 20 30 40 50 60 70 -10 -20 -30 -40 -50 -60 -

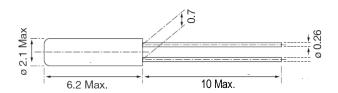
#### PARABOLIC TEMPERATURE CURVE

To determine frequency stability, use parabolic curvature. For example: What is the stability at 45°C?

1) Change in T (°C) = 45 - 25 = 20°C 2) Change in frequency = -0.04 PPM x ( $\Delta$ S T)  $^2$ = -0.04 PPM x (20)  $^2$ = -16.0 PPM



#### **DIMENSIONS (mm)**



#### PART NUMBERING GUIDE: Example ECS-.400-12.5-13X

ECS - FREQUENCY ABBREVIATION			LOAD CAPACITANCE		PACKAGE
ECS		.400 = 40.000 KHz	12.5 = 12.5 pF		13X = 2x6

Rev.2017



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

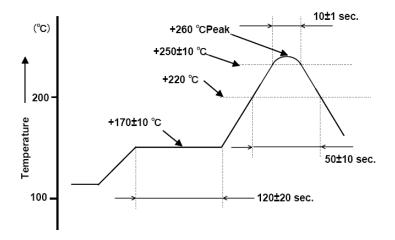


Figure 1) Suggested Solder Profile

# **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

### ECS:

<u>ECS-1.536-12.5-13X</u> <u>ECS-.655-12.5-13X</u> <u>ECS-1.00-12.5-13X</u> <u>ECS-.750-12.5-13X</u> <u>ECS-.600-12.5-13X</u> <u>ECS-.400-12.5-13X</u>