IMPACT, LLC

W30SMR

Cylindrical Surface Mount Crystal 10.0 x 3.0mm Cold Weld Miniature With Optional Clip

Lead Free

EU RoHS
EU RoHS Leaf Compliant

Reach Compliant

China RoHS Compliant

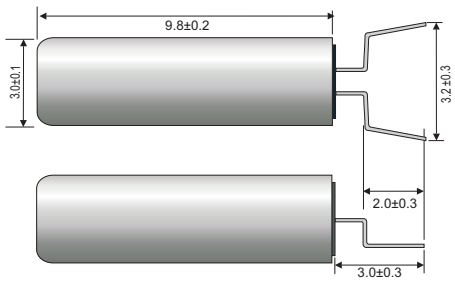
Conflict Minerals Free

Specifications

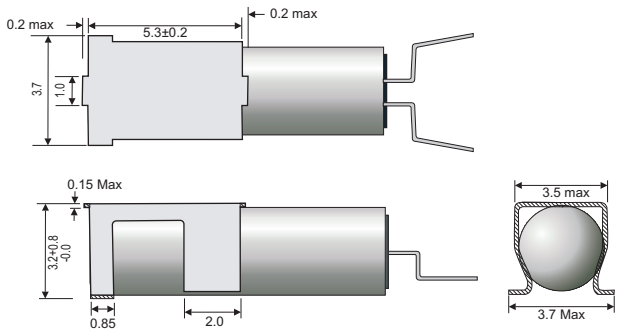
Part Number		W30SMR
Frequency		32.768kHz
Mode of Operation		Fundamental
Frequency Stability	**Calib. Tol. @ 25°C**	±20ppm
	Parabolic Coefficient	-0.034 ±0.006ppm/°C
	Aging/Year (fa)	±3ppm Max
Temp. Range	**Turnover (To)**	25°C ±5°C
	Operating (TOPR)	-40°C ~ +85°C
	Storage (TSTG)	-40°C ~ +85°C
Drive Level (DL)		1 µW Max
Capaciance	**Load**	12.5pF
	Shunt	1.35pF
	Ratio	450 Typ
Series Resist. (R_1)		35kΩ Max
Quality Factor		70,000 Typ
Insulation Resistance(I R)		500MΩ Min
Shock		±5ppm Max

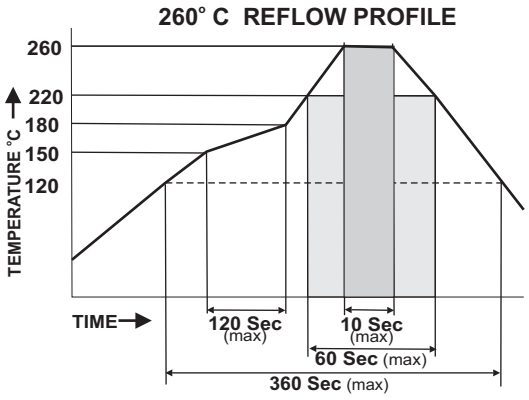
Dimensions (mm)

Standard Package

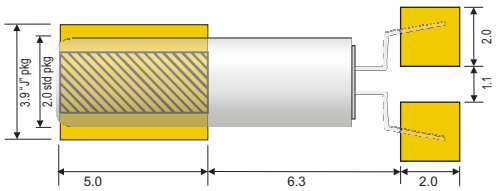


"J" Clip Option





Recommended Pad Layout (mm)



✓ ISO 9001:2015 Certified

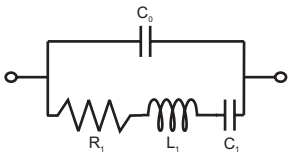
7121 Magnolia Avenue, Riverside, CA 92504 - Tel: (951) 441-3322

www.impactllc.com

Environmental And Mechanical

Temperature	10 Cycles of -30ºC (30Mins), Normal (1Hr), 85ºC (30Mins), Normal (1Hr)
Shock	Accelerated at 1000G for 1mS in each perpendicular axis.
Vibration	4 Cycles of 20G acceleration at 20 - 2,000Hz within 4 minutes in each perpendicular axis.
Solder	Peak Temperature of 260ºC Max for 10 Seconds with preheat of 160ºC for 90±10% for 10 Seconds for a maximum of 2 Cycles.

Equivalent Circuit



C_0 Shunt Capacitance
R_1 Equivalant Series Resistance
L_1 Motion Inductance
C_1 Motion Capacitance

Part Number

W30SMR- XX.XXX M - XX J

Load Cap

06	6pF Load (Shunt Cap 1.1pF)
##	Custom Load
S	Series

Options

J	J-Clip

J-Clip **Default:** No Clip
Load Capacitance: **Default**: 12.5pF
Frequency: 32.768KHz
Standard RoHS Compliant 9.8 x 3.0mm Cylindrical SMT Crystal

Example: **W30SMR-32.768K** 32.768KHz, ±20ppm Xtal with 12.5pF Load, ESR of 35KΩ, operating at -40ºC ~ +85ºC (No Clip)
Example: **W30SMR-32.768K-6J** 32.768KHz, ±20ppm Xtal with 6pF Load, ESR of 35KΩ, operating at -40ºC ~ +85ºC, With J-Clip