

SERIES RSE H14



● FEATURES

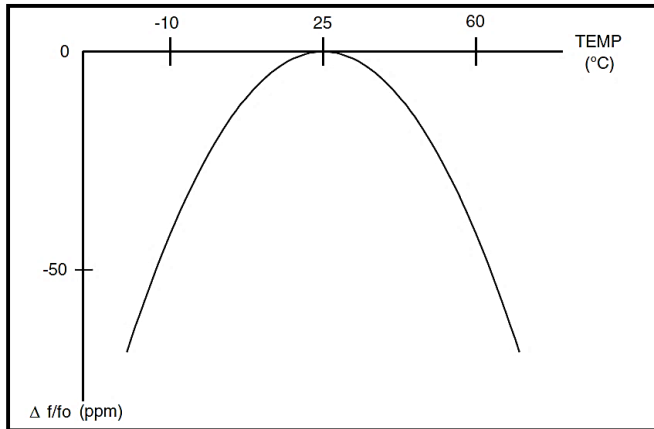
- SUITABLE FOR TIME OF DAY CLOCK APPLICATIONS
- LOW PROFILE 1.4mm HEIGHT
- EXCELLENT FOR AUTOMATIC AND HIGH DENSITY SURFACE MOUNTING

● SPECIFICATIONS

PARAMETER	VALUE
NOMINAL FREQUENCY	32.768 kHz
FREQUENCY TOLERANCE AT 25°C	±20 ppm max ±5 ppm, ±10 ppm available
TURNOVER TEMPERATURE	+25 ±5°C
TEMPERATURE COEFFICIENT	-0.035 ± 0.01 ppm/°C ²
LOAD CAPACITANCE	6 to 12.5 pF
EQUIVALENT SERIES RESISTANCE	65 kΩ max
SHUNT CAPACITANCE	0.8 pF typ
AGING	±3 ppm per year max
DRIVE LEVEL	0.1μW typ, 1μW max
INSULATION RESISTANCE	500 MΩ max
OPERATING TEMPERATURE RANGE	-40°C to +85°C
STORAGE TEMPERATURE RANGE	-40°C to +125°C



● FREQUENCY VS. TEMPERATURE CURVE



● PART NUMBERING SYSTEM

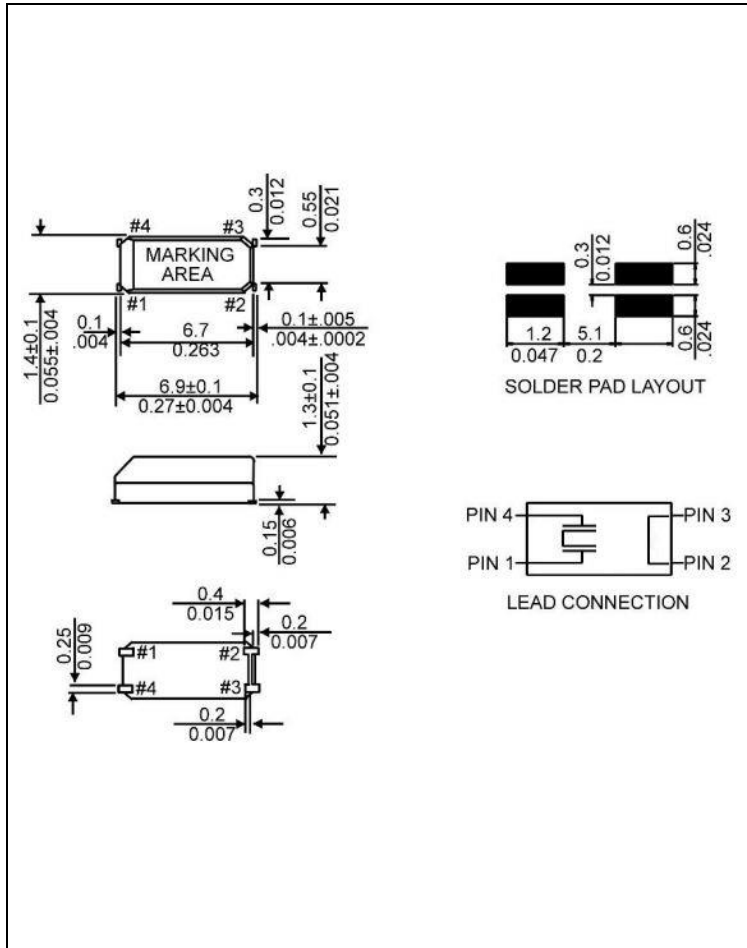
TYPE	-	FREQUENCY	-	LOAD CAPACITANCE	-	HOLDER	-	TAPE & REEL	-	TOLERANCE
RSE	-	32.768	-	6 to 12.5 pF	-	H14	-	TR	-	Blank for ±20ppm 5PPM for ±5ppm 10PPM for ±10ppm

EXAMPLE: RSE-32.768-12.5-H14-TR-10PPM

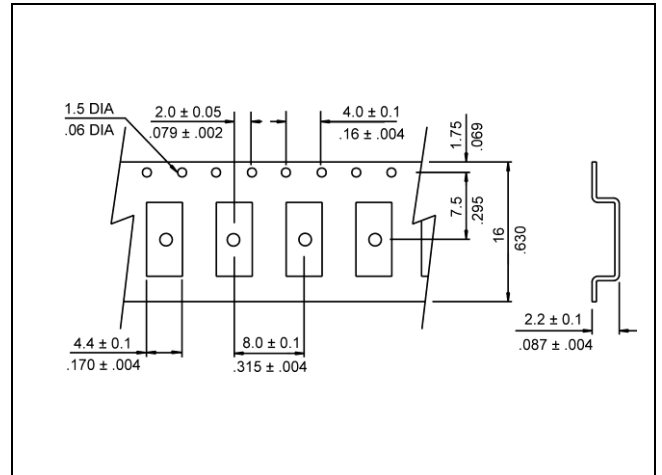
Surface Mount Tuning Fork Crystal RSE H14, 32.768 kHz, 12.5 pF Load Capacitance, ±10ppm Tolerance

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- MECHANICAL SPECIFICATION**



- CARRIER TAPE DIMENSIONS**

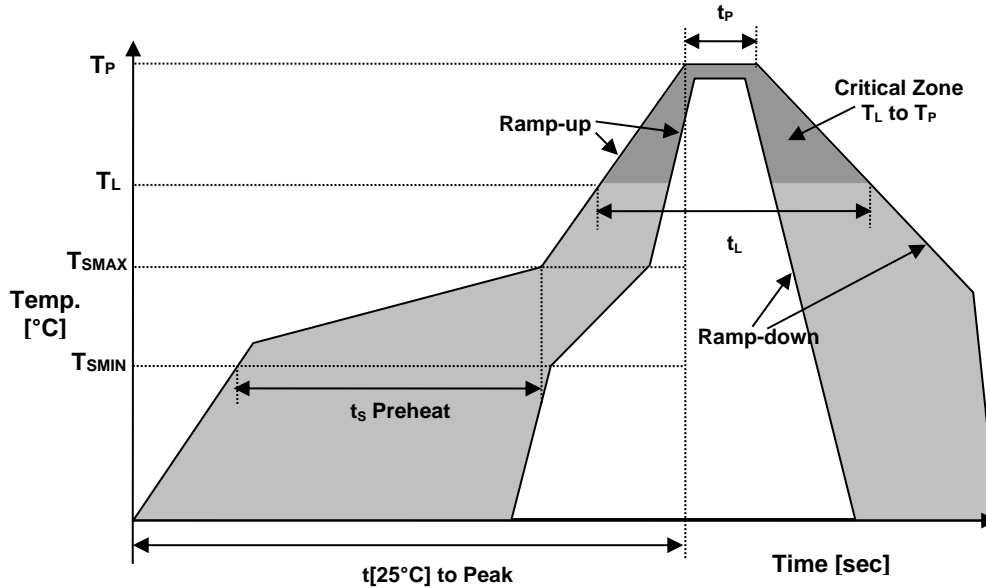


NOTE: REFER TO EIA-481 FOR NON-SPECIFIED DIMENSIONS

- PACKAGING**

180 mm REEL DIAMETER
 16 mm TAPE WIDTH, 8 mm PITCH
 QUANTITY: 3000 PIECES PER REEL

● REFLOW PROFILE



Reflow profile		
Temperature Min Preheat	T_{SMIN}	150°C
Temperature Max Preheat	T_{SMAX}	200°C
Time (T_{SMIN} to T_{SMAX})	t_s	60-180 sec.
Temperature	T_L	217°C
Peak Temperature	T_P	260°C
Ramp-up rate	R_{UP}	3°C/sec max.
Ramp-down rate	R_{DOWN}	6°C/sec max.
Time within 5°C of Peak Temperature	t_p	10 sec.
Time $t[25^\circ\text{C}]$ to Peak Temperature	$t[25^\circ\text{C}]$ to Peak	480 sec.
Time	t_L	60-150 sec.

● ENVIRONMENTAL

PARAMETER	VALUE
RoHS	COMPLIANT
REACH SVHC	COMPLIANT
HALOGEN-FREE	COMPLIANT
ESD CLASSIFICATION LEVEL	N/A
TERMINATION FINISH	Sn

