

## HC-49-S SMD

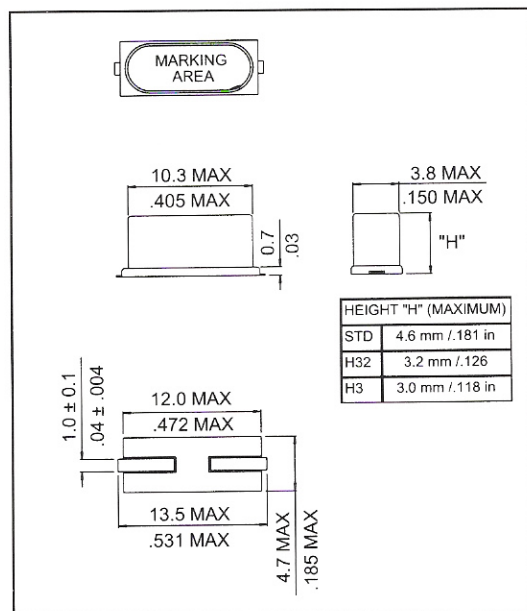
### ● FEATURES

- EXCELLENT CLOCK SIGNAL GENERATOR FOR CPU'S
- AVAILABLE IN EXTENDED TEMPERATURE
- SAME PIN LAYOUT AS HC-49/U

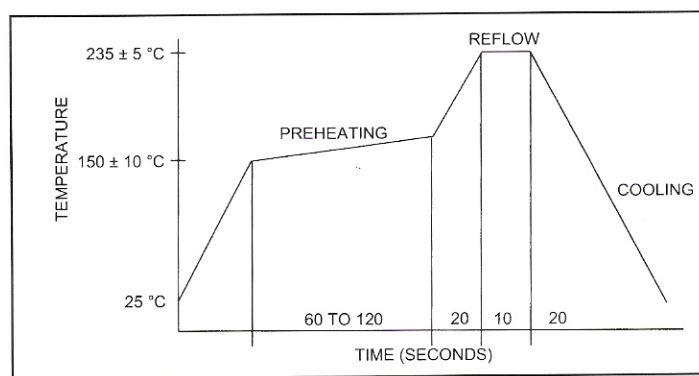
### ● SPECIFICATIONS

FREQUENCY RANGE	3.20 MHz TO 70.00 MHz	
MODE OF OSCILLATION	FUNDAMENTAL	3.20 MHz TO 40.320 MHz
	THIRD OVERTONE	24.576 MHz TO 70.00 MHz
FREQUENCY TOLERANCE AT 25	±30 PPM TYPICAL ±50 PPM MAXIMUM	
FREQUENCY STABILITY OVER TEMPERATURE RANGE	±50 PPM TYPICAL ±100 PPM MAXIMUM	
OPERATING TEMPERATURE RANGE	-10 TO +60	STANDRD
	-40 TO +85	EXTENED
STORAGE TEMPERATURE RANGE	55 TO +125	
AGING	±5 PPM PER YEAR MAXIMUM	
LOAD CAPACITANCE	10pF TO 32pF OR SERIES	
EQUIVALENT SERIES RESISTANCE(ESR)	SEE TABLE	
DRIVE LEVEL	0.1 mW TYPICAL	
CRYSTAL CUT	AT STRIP	

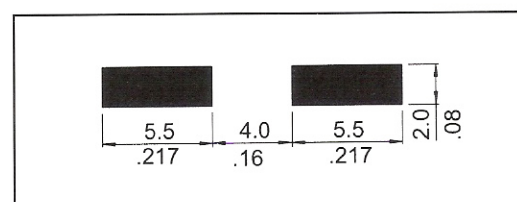
### ● OUTLINE DRAWING



### ● REFLOW SOLDERING PROFILE



### ● RECOMMENDED SOLDER PATTERN



● **TYPICAL FREQUENCY AND ESR CHARACTERISTICS**

FREQUENCY (Hz)	ESR (OHM)	MODE	FREQUENCY (Hz)	ESR (OHM)	MODE	FREQUENCY (Hz)	ESR (OHM)	MODE	FREQUENCY (Hz)	ESR (OHM)	MODE
3.579545	200	FUND	8.064	80	FUND	14.7456	50	FUND	47.92	80	3OT
3.6864	200	FUND	8.192	80	FUND	16.00	50	FUND	48.0	80	3OT
4.00	150	FUND	8.6436	80	FUND	16.000312	50	FUND	50.688	80	3OT
4.032	150	FUND	9.60	60	FUND	16.384	50	FUND	52.416	80	3OT
4.096	150	FUND	9.834	60	FUND	19.6608	50	FUND	56.448	80	3OT
4.194304	150	FUND	10.00	60	FUND	20.00	50	FUND	60	80	3OT
4.433619	150	FUND	10.24	60	FUND	24.00	50	FUND	70.00	80	3OT
4.9152	150	FUND	10.244	60	FUND	24.576	50	FUND/3OT	<b>OTHER FREQUENCIES ARE AVAIAABLE</b>		
5.0688	120	FUND	10.245	60	FUND	27.00	50/80	FUND/3OT			
6.00	100	FUND	11.00	60	FUND	28.63636	50/80	FUND/3OT			
6.144	100	FUND	11.0592	60	FUND	29.00	50/80	FUND/3OT			
6.176	100	FUND	11.2896	60	FUND	32.00	50/80	FUND/3OT			
7.15909	80	FUND	12.00	60	FUND	32.768	50/80	FUND/3OT			
7.3728	80	FUND	12.088	60	FUND	36.00	50/80	FUND/3OT			
7.680	80	FUND	12.80	60	FUND	40.00	50/80	FUND/3OT			
8.00	80	FUND	14.31818	60	FUND	40.320	50/100	FUND/3OT			

● **PART NUMBERING SYSTEM**

HOLDER TYPE		FREQUENCY	LOAD CAPACITANCE	MODE		EXTENDED TEMPERATURE	CONFIGURATION	
LS	HC-49/S	IN MHZ	10 TO 32pF FOR PARALLEL S FOR SERIES	FUND 3OT	FUNDAMENTAL THIRD OVERTONE	EXT	SMD	SMD TYPE

MECHANICAL OPTIONS		HEIGHT		TAPE AND REEL
THREE PIN BASE	SPACER	STD+	3.5mm	T
3PIN	SP	H3	3.0mm(CUSTOM)	
		H28	2.8mm(CUSTOM)	

EXAMPLE: LS-16.000-20-H3, LS-16.000-20-SMD

LS-32.000-18-3OT-SP-EXT-T

+ NO OPTION CODE NEEDED WHEN "STD" OR FUNDAMENTAL IS SPECIFIED

TAPE AND QUANTITY IS 1K PIECES.