

#### ● FEATURES

- COMPACT AND ULTRA-THIN
- FREQUENCY UP TO 56.448 MHz
- COST EFFECTIVE

#### ● SPECIFICATIONS

SERIES	H180A
FREQUENCY RANGE	10.00 MHz TO 60.00 MHz
FREQUENCY TOLERANCE AT 25° C	±100 PPM MAXIMUM (±10 PPM, ±30 PPM, AND ±50 PPM AVAILABLE)
FREQUENCY STABILITY OVER TEMPERATURE	±100 PPM MAXIMUM (±10 PPM, ±30 PPM, AND ±50 PPM AVAILABLE)
OPERATING TEMPERATURE RANGE	-10° C TO +70° C STANDARD -40° C TO +85° C EXTENDED
STORAGE TEMPERATURE RANGE	-40° C TO +85° C
AGING	±5 PPM PER YEAR MAXIMUM
LOAD CAPACITANCE	12 pF TO 32 pF OR SERIES
SHUNT CAPACITANCE	7 pF MAXIMUM
EQUIVALENT SERIES RESISTANCE (ESR)	SEE TABLE 1
DRIVE LEVEL	SEE TABLE 2
SHOCK RESISTANCE	±5 PPM MAXIMUM 75 cm DROP TEST IN 3 AXES ONTO A HARD SURFACE
VIBRATION RESISTANCE	
REFLOW CONDITIONS	240° C FOR 5 s MAXIMUM



TABLE 1

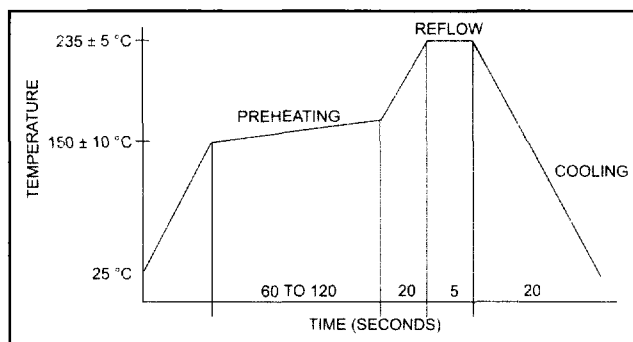
FREQUENCY (MHz)	MODE	MAX ESR (OHM)	FREQUENCY (MHz)	MODE	MAX ESR (OHM)
14.31818	FUND	100	28.63636	FUND	100
16.00	FUND	100	30.00	FUND	100
16.384	FUND	100	32.00	FUND	100
16.9344	FUND	100	33.8688	FUND	100
19.6608	FUND	100	36.00	FUND	100
20.00	FUND	100	40.00	FUND	100
21.47727	FUND	100	45.16	3OT	150
24.00	FUND	100	56.448	3OT	150

TABLE 2

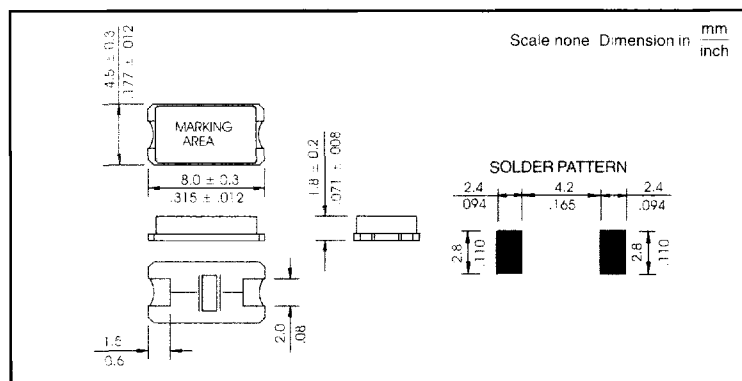
FREQUENCY RANGE	DRIVE LEVEL
10.00 MHz TO 15.999 MHz	4.0 TO 500 µW
16.00 MHz TO 24.999 MHz	4.0 TO 300 µW
25.00 MHz TO 56.448 MHz	4.0 TO 100 µW

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#### ● SOLDER REFLOW PROFILE



#### ● OUTLINE DRAWING



#### ● PACKAGING

250 mm REEL DIAMETER  
16 mm TAPE WIDTH, 8 mm PITCH  
QUANTITY 1000 PIECES PER REEL

#### ● PART NUMBERING SYSTEM

HOLDER TYPE	FREQUENCY	LOAD CAPACITANCE	MODE		EXTENDED TEMPERATURE	TAPE AND REEL
			FUND 3OT	FUNDAMENTAL THIRD OVERTONE		
H180A	IN MHz	12 TO 32 pF FOR PARALLEL S FOR SERIES			EXT	T

EXAMPLE: H180A-56.448-18-3OT-T

#### ● CARRIER TAPE DIMENSIONS

