

## SURFACE MOUNT MICROPROCESSOR CRYSTAL

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# **SERIES H10A**

## FEATURES

- LOW PROFILE
- HIGH ACCURACY AND STABILITY
- WIDE FREQENCY RANGE FROM 10.000 MHz TO 200.000 MHz

# SPECIFICATIONS

PARAMI	ETER	VALUE				
FREQUENCY RANGE		10.000 MHz TO 200.000 MHz				
	FUNDAMENTAL	8.000 MHz TO 40.320 MHz				
MODE OF OSCILLATION	THIRD OVERTONE	24.576 MHz TO 200.000 MHz				
	FIFTH OVERTONE	XX.XX MHz TO 200.000 MHz				
FREQUENCY TOLERANCE	AT 25°C	±100 PPM MAXIMUM (±10, ±20, ±30 AND ±50 PPM AVAILABLE)				
FREQUENCY STABILITY OV	/ER TEMPERATURE	±100 PPM MAXIMUM (±10, ±20, ±30 AND ±50 PPM AVAILABLE)				
OPERATING TEMPERATUR	RE RANGE	-10°C TO +60°C STANDARD -40°C TO +85°C EXTENDED				
STORAGE TEMPERATURE	RANGE	-40°C TO +85°C				
AGING		±2 PPM PER YEAR MAXIMUM				
LOAD CAPACITANCE		10 pF to 32 pF OR SERIES				
<b>EQUIVALENT SERIES RESI</b>	STANCE	SEE TABLE 1				
SHUNT CAPACITANCE		7.0 pF MAXIMUM				
DRIVE LEVEL		500 μW MAX				
SHOCK RESISTANCE		±5 PPM MAXIMUM 75 cm DROP TEST IN 3 AXES ON TO A HARD SURFACE				
REFLOW CONDITIONS		260°C ±5°C FOR 10s MAXIMUM				





TABLE 1								
FREQUENCY (MHz)	MODE	MAX ESR (OHMS)	FREQUENCY (MHz)	MODE	MAX ESR (OHMS)	FREQUENCY (MHz)	MODE	MAX ESR (OHMS)









### **SERIES H10A**

#### PART NUMBERING SYSTEM

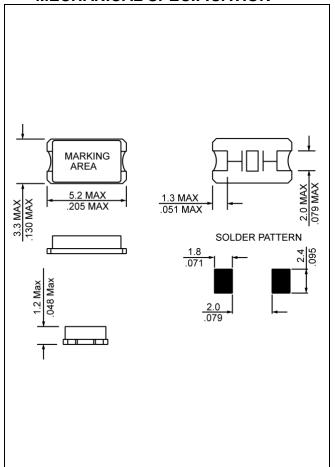
TYPE	-	FREQUENCY		LOAD CAPACITANCE	•	MODE		TOLERANCE/STABLITY (PPM/PPM)
H10A	-	IN MHz	-	10 TO 32 pF FOR PARALLEL S FOR SERIES	-	Blank FOR < 24.576 MHz F FOR ≥ 24.576 MHz 3OT THIRD OVERTONE 5OT FIFTH OVERTONE	-	Blank FOR MAXIMUM PPMPPM Example: 1020, 2050

-	EXTENDED TEMPERATURE	ı	TAPE & REEL
-	Blank FOR STANDARD EXT FOR EXTENDED	-	TR

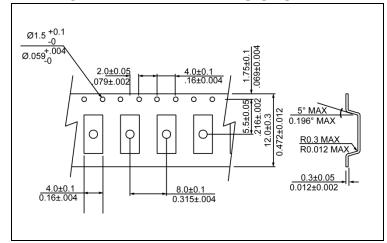
#### **EXAMPLE: H10A-24.000-18-TR**

Surface Mount Microprocessor Crystal, H10A package, 24.000 MHz, Fundamental mode, 18 pF load, ±30 ppm Tolerance, ±50 ppm Stability, from -10°C to +60°C, Tape and reel packaging

## MECHANICAL SPECIFICATION



### CARRIER TAPE DIMENSIONS



### PACKAGING

250 mm REEL DIAMETER
12 mm TAPE WIDTH, 8 mm PITCH
QUANTITY: 3000 PIECES PER REEL