

SURFACE MOUNT MICROPROCESSOR CRYSTAL

Page 1 of 3

SERIES R2520

FEATURES

- COMPACT DESIGN
- HIGH ACCURACY
- EXCELLENT FOR HIGH DENSITY SURFACE MOUNTING



SPECIFICATIONS

- 01 2011 107(1101(0						
PARAMETER	VALUE					
FREQUENCY RANGE	12.00 MHz to 55.00 MHz					
MODE OF OSCILLATION	FUNDAMENTAL ONLY					
FREQUENCY TOLERANCE AT 25°C	±50 PPM MAXIMUM (±10, AND ±20 PPM AVAILABLE)					
FREQUENCY STABILITY OVER TEMPERATURE	±50 PPM MAXIMUM (±10, AND ±20 PPM AVAILABLE)					
OPERATING TEMPERATURE RANGE	-10°C TO +60°C STANDARD ¹ -40°C TO +85°C EXTENDED ¹					
STORAGE TEMPERATURE RANGE	-40°C TO +85°C					
AGING	±3 PPM PER YEAR MAXIMUM					
LOAD CAPACITANCE	8 pF to 32 pF OR SERIES					
EQUIVALENT SERIES RESISTANCE	SEE TABLE 1					
SHUNT CAPACITANCE	7 pF MAXIMUM					
DRIVE LEVEL	500 μW MAXIMUM					
SHOCK RESISTANCE	±5 PPM MAXIMUM 75 cm DROP TEST IN 3 AXES ONTO A HARD SURFACE					
REFLOW CONDITIONS	260°C ±5°C FOR 10s MAXIMUM					



¹ NOTE: NOT ALL STABILITIES ARE AVAILABLE FOR ALL OPERATING TEMPERATURE RANGES. CONTACT FACTORY FOR AVAILABILITY.

TABLE 1							
FREQUENCY (MHz)	MODE	MAX ESR (OHMS)					
16.000 TO 18.999	FUND	90					
19.000 TO 24.999	FUND	80					
25.000 TO 31.999	FUND	60					
32.000 TO 50.000	FUND	50					



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Page 2 of 3

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PART NUMBERING SYSTEM

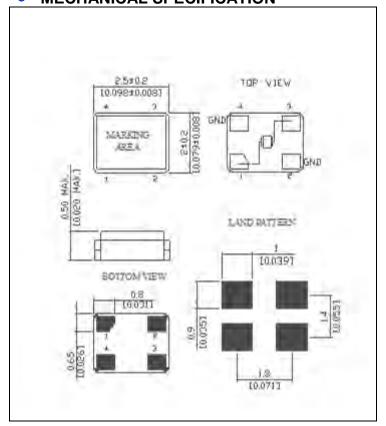
TYPE	-	FREQUENCY	-	LOAD CAPACITANCE	•	MODE	•	TOLERANCE/STABLITY (PPM/PPM)
R2520	1	IN MHz	-	10 TO 32 pF FOR PARALLEL S FOR SERIES	- 1	Blank FOR < 24.576 MHz F FOR ≥ 24.576 MHz	1	Blank FOR MAXIMUM PPMPPM Example: 1020, 2050

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

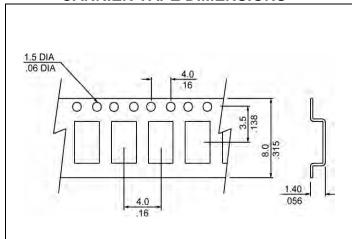
EXAMPLE: R2520-20.000-10-2020-TR

Surface Mount Crystal, 2.5 mm x 2.0 mm package, 20.000 MHz, 10 pF load, ±20 ppm Tolerance, ±20 ppm Stability over the Operating Temperature from -10°C to +60°C, Tape and Reel packaging

MECHANICAL SPECIFICATION



CARRIER TAPE DIMENSIONS



NOTE: REFER TO EIA-481 FOR DIMENSIONS

PACKAGING

178 mm REEL DIAMETER 8 mm TAPE WIDTH, 4 mm PITCH QUANTITY: 1000 PIECES PER REEL

IN ACCORDANCE WITH EIA-481