



| REVISIONS |                 |        |          |
|-----------|-----------------|--------|----------|
| LTR       |                 | DATE   | APPROVED |
| A         | INITIAL RELEASE | 5/5/03 |          |
|           |                 |        |          |

**SPECIFICATIONS:**

|                               |                         |
|-------------------------------|-------------------------|
| NOMINAL FREQUENCY:            | 12.288 MHz              |
| MODE OF OSCILLATION:          | FUNDAMENTAL             |
| FREQUENCY TOLERANCE AT 25°C:  | ±30 PPM MAX             |
| FREQUENCY STABILITY OVER      |                         |
| TEMPERATURE RANGE:            | ±50 PPM MAX             |
| OPERATING TEMPERATURE RANGE:  | -20°C TO +70°C          |
| STORAGE TEMPERATURE RANGE:    | -55°C TO +125°C         |
| AGING:                        | ±5 PPM PER YEAR MAX     |
| LOAD CAPACITANCE:             | 20 pF                   |
| DRIVE LEVEL:                  | 100 µW TYP, 1000 µW MAX |
| SHUNT CAPACITANCE:            | 7 pF MAX                |
| EQUIVALENT SERIES RESISTANCE: | 30 OHMS MAX             |
| HOLDER TYPE:                  | HC-49/U AS SHOWN        |

**RALTRON**

10651 NW 19TH STREET  
MIAMI, FL 33172

ALL DIMENSIONS ARE IN mm/inch  
UNLESS OTHERWISE SPECIFIED

DRAWN BY: Part Generator

CHECKED BY:

APPROVED BY:

SCALE: SHEET 1 OF DATE:

CAGE CODE:

Ø VUE Ø

DRAWING TITLE:

**MICROPROCESSOR CRYSTAL UNIT**

DRAWING NUMBER:

**A-12.288-20**