

1. SPECIFICATION

| | |
|--------------------------------------|--------------------|
| FREQUENCY RANGE | 3.579545-80.000MHz |
| LOAD CAPACITANCE | 10PF TO SERIES |
| FREQUENCY TOLERANCE AT 25°C | -/+30PPM MAXIMUM |
| FREQUENCY STABILITY AT -20 TO +70 °C | -/+30PPM MAXIMUM |
| OPERATING TEMPERATURE RANGE | -10 TO +60 °C |
| STORAGE TEMPERATURE RANGE | -40 TO +85 °C |
| EQUIVALENT SERIES RESISTANCE (ESR) | SEE ESR TABLE |
| DRIVE LEVEL | 1.0 mW MAXIMUM |
| SHUNT CAPACITANCE | 7PF MAXIMUM |
| AGING | -/+5PPM PER YEAR |
| INSULATION RESISTANCE | 500 MOhm MINIMUM |

2. FREQUENCY RANGE AND OSCILLATION MODE

| FUNDAMENTAL (F) | THIRD OVERTONE (3OT) | FIFTH OVERTONE (5OT) |
|--------------------|----------------------|----------------------|
| 3.579545-30.000MHz | 24.000-70.000MHz | 60.000-80.000MHz |

3. PART NUMBERING SYSTEM

| HOLDER TYPE | FREQUENCY | MODE | LOAD CAPACITANCE | FREQUENCY TOLERANCE AT 25°C | FREQUENCY STABILITY AT -10 TO +60 °C |
|-------------|-----------|------------|--------------------------------------|-----------------------------|--------------------------------------|
| 49S-SMD | IN MHz | F | 10 TO 33PF FOR PARALLEL S FOR SERIES | 30 FOR -/+30PPM | 30 FOR -/+30PPM |
| 49S2-SMD | | 3OT 5OT | | | |

| OPERATING TEMPERATURE RANGE | OPTIONS | |
|-----------------------------|---------|---------------|
| B FOR -10 TO +60 °C | T | TAPE AND REEL |

FUNDAMENTAL MODE NOT NEEDED IN PART NUMBER

30PPM OF FREQUENCY TOLERANCE AND FREQUENCY STABILITY NOT NEEDED IN PART NUMBER

-10 TO +60 °C OF OPERATING TEMPERATURE RANGE NOT NEEDED IN PART NUMBER

TAPE AND REEL NOT NEEDED IN PART NUMBER

4. ESR TABLE (Ohm)

| | | | | | |
|----------------|----------------|---------------|--------------|------------|----------|
| 3.5-4.0 MHz | 4.0-8.0 MHz | 8.0-14 MHz | 14-24 MHz | >24 MHz | |
| 150 | 100 | 60 | 40 | 40 (F) | 80 (30T) |

5. DIMENSIONS

