

SILICON HIGH RATIO PLASTIC THRU HOLE VARACTORS

The TMV1400 Series of hyperabrupt varactors offer high capacitance ratios with linear tuning between 2 and 8 volts. The units are available over a broad range of junction capacitances, satisfying a large number of broadband applications thru the VHF frequency band.

TMV1401 - TMV1412

| PART NUMBER | DIODE CAPACITANCE (CT) | | | | TUNING RATIO (TR) | | QUALITY FACTOR |
|----------------|---------------------------|-----|---------------|-----|-------------------|--------------|----------------|
| | pF @ 1V•1 MHz | | pF @ 2V•1 MHz | | C•1V / C•10V | C•2V / C•10V | Q |
| | MIN | MAX | MIN | MAX | @ 1 MHz | @ 1 MHz | @ 2V • 1 MHz |
| TMV1401 | 440 | 660 | | | 14:1 | | 200 |
| TMV1402 | | | 45 | 69 | | 10:1 | 200 |
| TMV1403 | | | 140 | 210 | | 10:1 | 200 |
| TMV1404 | | | 96 | 144 | | 10:1 | 200 |
| TMV1405 | | | 200 | 300 | | 10:1 | 200 |
| TMV1406 | | | 80 | 120 | | 10:1 | 200 |
| TMV1407 | | | 54 | 82 | | 10:1 | 200 |
| TMV1408 | | | 37 | 57 | | 10:1 | 200 |
| TMV1409 | | | 26 | 40 | | 10:1 | 200 |
| TMV1410 | | | 17 | 27 | | 9.5:1 | 200 |
| TMV1411 | | | 12 | 18 | | 8.5:1 | 200 |
| TMV1412 | | | 8 | 12 | | 7.5:1 | 200 |

Package Style

Device Dissipation (Pd)

Junction Temperature (Tj)

Reverse Breakdown Voltage (V_{BR})

Max Reverse Leakage Current (I_R)

Operating Temperature (Topr)

Storage Temperature (Tstg)

Capacitance Tolerance @ -2Vdc (1401 @ -1Vdc)

T_A = 25°C

10 µA_{dc}

V_r = 10 Vdc

TO-92 (182-02)

280 mW

125°C

12 Vdc Min

0.1 µA_{dc}

-55° to + 125°C

-55° to + 150°C

± 20%

TO-92 lead spacing between anode and cathode of .1" available. Bulk package only.