

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.