

Silicon Abrupt Tuning Varactors: General Purpose - Ultra Low Leakage

Rev. V1

Features

- Ultra-Low Leakage
- Available as Bare Die or in Glass Axial Leaded Package
- RoHS* Compliant



Bare Die



Glass Axial Leaded

Electrical Specifications: $T_A = +25^\circ\text{C}$

| Part Number | Total Capacitance -4 V, 1 MHz | Capacitance Ratio C 0.5 V / C MWV | Working Voltage $I_R = 100 \mu\text{A}$ | Breakdown Voltage |
|-------------|----------------------------------|--------------------------------------|--|--------------------|
| | (pF) | Ratio) | (V _{DC}) | (V _{DC}) |
| | (Typ.) | (Typ.) | (Max.) | (Min.) |
| V907 | 7 | 4.1 | 25 | 28 |
| V910 | 10 | 4.1 | 25 | 28 |
| V912 | 12 | 4.2 | 25 | 28 |
| V915 | 15 | 4.2 | 25 | 28 |
| V920 | 20 | 3.9 | 20 | 22 |
| V927 | 27 | 4.0 | 20 | 22 |
| V933 | 33 | 4.1 | 20 | 22 |
| V939 | 39 | 4.1 | 20 | 22 |
| V947 | 47 | 3.9 | 20 | 22 |
| V956 | 56 | 3.5 | 15 | 17 |
| V968 | 68 | 3.5 | 15 | 17 |
| V982 | 82 | 3.5 | 15 | 17 |
| V900 | 100 | 3.5 | 15 | 17 |
| V907E | 7 | 6.9 | 100 | 110 |
| V910E | 10 | 6.9 | 100 | 110 |
| V912E | 12 | 7.5 | 100 | 110 |
| V915E | 15 | 7.5 | 100 | 110 |
| V920E | 20 | 7.9 | 90 | 99 |
| V927E | 27 | 7.4 | 65 | 72 |
| V933E | 33 | 6.5 | 60 | 66 |
| V939E | 39 | 6.3 | 55 | 61 |
| V947E | 47 | 6.1 | 50 | 55 |
| V956E | 56 | 5.7 | 40 | 44 |
| V968E | 68 | 4.6 | 30 | 33 |
| V982E | 82 | 4.0 | 20 | 22 |
| V900E | 100 | 4.0 | 20 | 22 |

Absolute Maximum Ratings^{5,6}

| Parameter | Absolute Maximum |
|-----------------------|---------------------|
| Forward Voltage Drop | 1.0 V _{DC} |
| DC Power Dissipation | 400 mW |
| Reverse Current | 5 nA |
| Capacitance Tolerance | +/-20% |
| Operating Temperature | -65°C to +150°C |
| Storage Temperature | -65°C to +200°C |

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