V9x Series

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°C

Part Number	Total Capacitance -4 V, 1 MHz	Capacitance Ratio C 0.5 V / C MWV	Working Voltage I_R = 100 µA	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

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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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