

Silicon Hyperabrupt Tuning Varactors: Wideband



Plastic SMT

Model	C _T pF		C _T pF		RATIO	Q @ V _R 1, 50 MHz	V _R 1 V	V _R 2 V
	MIN	MAX	MIN	MAX	MIN	MIN	TYP	TYP
MSV1200-04-001	10.5	12.5	2.1	2.50	4.60	400	3.0	20
MSV1200-104-004	10.5	12.5	2.1	2.50	4.60	400	3.0	20
MSV1200-07-001	25.0	31.0	4.5	5.30	4.80	300	3.0	20
MSV1200-107-004	25.0	31.0	4.5	5.30	4.80	300	3.0	20
MSV1204-04-001	02.5	03.3	0.6	0.85	3.00	500	4.0	20
MSV1204-104-004	02.5	03.3	0.6	0.85	3.00	500	4.0	20
MSV1204-05-001	04.5	05.5	0.9	1.20	4.20	500	4.0	20
MSV1204-105-004	04.5	05.5	0.9	1.20	4.20	500	4.0	20
MSV1202-03-001	18.0	22.0	3.1	3.90	4.60	300	4.0	20
MSV1202-08-001	45.0	55.0	7.3	9.20	5.00	200	4.0	20
MSV1202-12-001	100	125	15.0	20.00	5.20	125	4.0	20
Test Conditions	@ -1 V _R 1, F = 1 MHz		C _T -2 @ V _R 2, F = 1 MHz		C _T 1V / C _T 2V	@ -1 Vdc, F = 50 MHz		

Model	V _B	I _R nA	C _T pF		C _T pF		C _T		Q
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	TYP	MIN
MSV1204-99-001	12	50	11	14	4.0	16.5	1.2	1.9	250
MSV1204-199-004	12	50	11	14	4.0	16.5	1.2	1.9	250
Test Conditions	@ 10μA	-8 Vdc	C _T @ -0.2 Vdc, F = 1 MHz		C _T @ -2 Vdc, F = 1 MHz		@ -6 Vdc, F = 50 MHz		@ -2 Vdc, F = 50 MHz

Model	C _T pF		C _T pF		C _T pF		Q
	MIN	TYP	MIN	TYP	MIN	TYP	MIN
MSV1204-11-001	95.0	100	40.0	65.0	20.0	25.0	80
MSV1204-12-001	42.0	50.0	18.0	27.0	09.0	12.0	150
MSV1204-13-001	17.0	22.0	08.5	10.5	04.0	05.5	200
MSV1204-14-001	14.5	16.0	06.5	07.8	03.0	04.8	300
MSV1204-15-001	8.7	09.5	04.3	5.50	02.0	02.9	350
MSV1201-97-001	85.0	—	—	—	15.0	30.0	500*
Test Conditions	@ -1 Vdc, F = 1 MHz		@ -2.5 Vdc, F = 1 MHz		@ -4 Vdc, F = 1 MHz		@ -4 Vdc, F = 50 MHz

Model	C _T pF		C _T RATIO		C _T RATIO		Q
	MIN	MAX	MIN	MAX	MIN	MAX	MIN
MSV1204-22-001	18.0	27.0	01.5	02.0	1.50	2.00	150
MSV1204-23-001	09.0	13.0	01.5	02.0	1.50	2.00	200
MSV1204-24-001	06.0	80.0	01.5	02.0	1.50	2.00	300
MSV1204-25-001	04.2	05.6	01.5	02.0	1.50	2.00	350
Test Conditions	@ 2.5 Vdc, F = 1 MHz		C _T 1 V / C _T 2.5 V		C _T 2.5 V / C _T 4 V		@ -4 V, F = 50 MHz