



Input Parameters

Device chip size = 0.030"
 Device width = 0.020"
 Device substrate thickness = 0.020"
 Material: alumina $\epsilon_r = 9.8$
 DC resistance value (ohms) $r = 50$
 SERIES capacitance value (farads) = $cap = 1.469 \cdot 10^{-14}$

IMS P/N RCX 0302 PW at 50 ohm

S - PARAMETER DATA

FREQ GHz	S11		S21		S12		S22	
	Mag	Ang	Mag	Ang	Mag	Ang	Mag	Ang
2.00	0.019	87.9	1.000	-1.8	1.000	-1.8	0.019	87.9
3.00	0.028	87.1	1.000	-2.7	1.000	-2.7	0.028	87.1
4.00	0.038	86.3	0.999	-3.6	0.999	-3.6	0.038	86.3
5.00	0.047	85.4	0.999	-4.5	0.999	-4.5	0.047	85.4
6.00	0.056	84.5	0.998	-5.4	0.998	-5.4	0.056	84.5
7.00	0.066	83.6	0.998	-6.3	0.998	-6.3	0.066	83.6
8.00	0.075	82.7	0.997	-7.2	0.997	-7.2	0.075	82.7
9.00	0.084	81.9	0.996	-8.1	0.996	-8.1	0.084	81.9
10.00	0.093	81.0	0.996	-9.0	0.996	-9.0	0.093	81.0
11.00	0.102	80.1	0.995	-9.9	0.995	-9.9	0.102	80.1
12.00	0.112	79.2	0.994	-10.7	0.994	-10.7	0.112	79.2
13.00	0.121	78.3	0.993	-11.6	0.993	-11.6	0.121	78.3
14.00	0.129	77.4	0.991	-12.5	0.991	-12.5	0.129	77.4
15.00	0.138	76.6	0.990	-13.4	0.990	-13.4	0.138	76.6
16.00	0.147	75.7	0.989	-14.3	0.989	-14.3	0.147	75.7
17.00	0.156	74.8	0.988	-15.2	0.988	-15.2	0.156	74.8
18.00	0.164	73.9	0.986	-16.0	0.986	-16.0	0.164	73.9
19.00	0.173	73.1	0.985	-16.9	0.985	-16.9	0.173	73.1
20.00	0.181	72.2	0.983	-17.8	0.983	-17.8	0.181	72.2
21.00	0.190	71.3	0.982	-18.6	0.982	-18.6	0.190	71.3
22.00	0.198	70.5	0.980	-19.5	0.980	-19.5	0.198	70.5
23.00	0.206	69.6	0.978	-20.3	0.978	-20.3	0.206	69.6
24.00	0.214	68.8	0.977	-21.2	0.977	-21.2	0.214	68.8
25.00	0.222	67.9	0.975	-22.0	0.975	-22.0	0.222	67.9
26.00	0.230	67.1	0.973	-22.9	0.973	-22.9	0.230	67.1
27.00	0.238	66.2	0.971	-23.7	0.971	-23.7	0.238	66.2
28.00	0.245	65.4	0.969	-24.6	0.969	-24.6	0.245	65.4
29.00	0.253	64.6	0.967	-25.4	0.967	-25.4	0.253	64.6
30.00	0.260	63.7	0.966	-26.2	0.966	-26.2	0.260	63.7
31.00	0.267	62.9	0.964	-27.1	0.964	-27.1	0.267	62.9
32.00	0.274	62.1	0.962	-27.9	0.962	-27.9	0.274	62.1
33.00	0.281	61.3	0.960	-28.7	0.960	-28.7	0.281	61.3
34.00	0.288	60.5	0.957	-29.5	0.957	-29.5	0.288	60.5
35.00	0.295	59.7	0.955	-30.3	0.955	-30.3	0.295	59.7
36.00	0.301	58.8	0.953	-31.1	0.953	-31.1	0.301	58.8
37.00	0.308	58.0	0.951	-31.9	0.951	-31.9	0.308	58.0
38.00	0.314	57.2	0.949	-32.7	0.949	-32.7	0.314	57.2
39.00	0.320	56.5	0.947	-33.5	0.947	-33.5	0.320	56.5
40.00	0.326	55.7	0.945	-34.3	0.945	-34.3	0.326	55.7