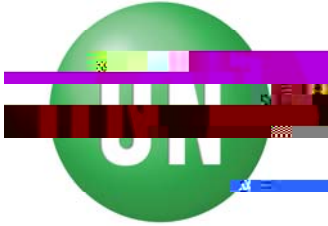


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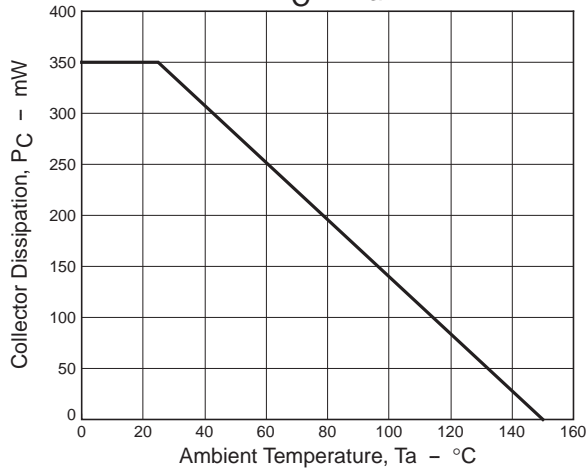
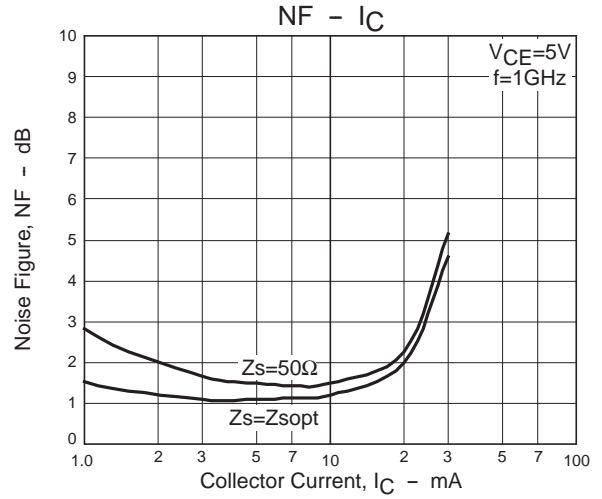
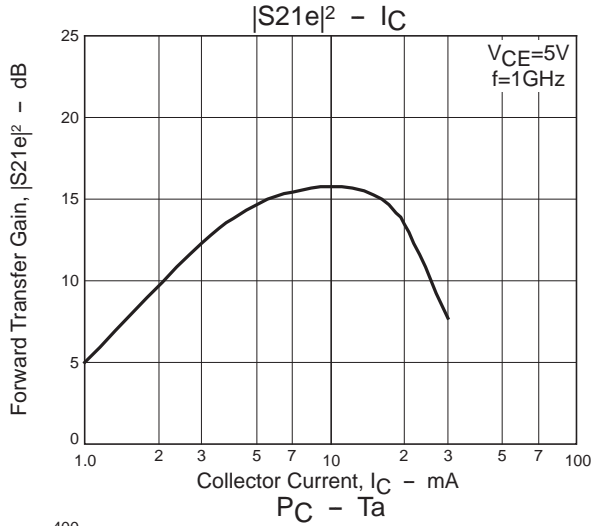
RF Transistor for Low Noise Amplifier



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NSVF3007SG3



S Parameters (Common emitter)

$V_{CE}=3V$, $I_C=5mA$, $Z_O=50\Omega$

Freq(MHz)	$ S_{11} $	$\angle S_{11}$	$ S_{21} $	$\angle S_{21}$	$ S_{12} $	$\angle S_{12}$	$ S_{22} $	$\angle S_{22}$
100	0.889	-11.8	9.020	164.0	0.011	87.1	0.978	-9.1
200	0.872	-18.1	8.560	151.7	0.026	81.8	0.945	-17.9
300	0.802	-32.2	8.281	142.9	0.037	77.5	0.892	-25.3
400	0.784	-37.9	7.883	136.4	0.046	74.5	0.843	-32.1
500	0.687	-55.5	7.588	125.7	0.057	71.6	0.771	-39.3
600	0.651	-64.3	7.221	119.3	0.065	70.4	0.724	-43.5
700	0.591	-76.2	6.686	111.7	0.073	69.0	0.675	-48.4
800	0.535	-85.9	6.254	105.1	0.080	68.2	0.632	-52.3
900	0.498	266.2	5.783	100.0	0.086	67.7	0.598	-55.7
1000	0.450	258.0	5.404	94.8	0.093	67.9	0.562	-58.4
1200	0.389	244.7	4.684	86.9	0.105	68.1	0.514	-63.0
1400	0.352	234.1	4.101	80.8	0.118	68.7	0.482	-66.0
1600	0.322	224.9	3.651	75.6	0.131	69.4	0.463	-68.3
1800	0.300	216.6	3.291	70.9	0.146	70.1	0.447	-70.1
2000	0.282	208.5	3.004	66.6	0.161	70.5	0.437	-71.9
2200	0.266	200.9	2.776	62.6	0.177	70.7	0.435	-73.7
2400	0.258	193.5	2.586	58.5	0.194	70.6	0.433	-76.6
2600	0.246	186.5	2.415	55.0	0.211	70.5	0.428	-78.6
2800	0.243	180.9	2.292	51.7	0.231	70.4	0.435	-80.0
3000	0.250	174.2	2.191	47.7	0.252	69.3	0.450	-83.4

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S Parameters (Common emitter)

$V_{CE}=3V, I_C=264 \text{ TD(V)Tj}722 \text{ -c68(264 T0 TD(CE)Tj}1.278 \text{ .156 TD(=3V)129(, I)T}1.49 \text{ -.156 TD(C)Tj}66 \text{ Tj}641.474 \text{ TD(V)Tj}722 \text{ -c68(264 TD(V)Tj}722$

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S Parameters (Common emitter)

$V_{CE}=5V$, $I_C=10mA$, $Z_O=50\Omega$

Freq(MHz)	S11	$\angle S11$	S21	$\angle S21$	S12	$\angle S12$	S22	$\angle S22$
100	0.792	-17.6	14.870	159.5	0.013	88.0	0.957	-11.5
200	0.754	-27.7	13.544	145.4	0.022	77.9	0.892	-21.2
300	0.642	-48.6	12.776	132.5	0.030	77.7	0.815	-28.1
400	0.601	-58.2	11.567	124.3	0.037	75.8	0.751	-33.7
500	0.489	-79.8	10.460	111.9	0.045	75.0	0.677	-39.6
600	0.452	269.8	9.468	105.4	0.053	75.3	0.632	-42.7
700	0.410	258.3	8.253	98.9	0.060	75.7	0.592	-46.4
800	0.380	249.3	7.358	94.0	0.067	76.0	0.556	-49.3
900	0.359	241.6	6.641	89.8	0.075	76.4	0.530	-51.8
1000	0.338	234.7	6.018	86.3	0.082	76.6	0.503	-54.1
1200	0.310	222.9	5.069	80.2	0.097	77.1	0.470	-57.7
1400	0.294	213.1	4.384	75.2	0.112	77.4	0.450	-60.0
1600	0.280	204.7	3.871	70.7	0.129	77.5	0.441	-62.1
1800	0.270	196.8	3.472	66.6	0.145	77.4	0.433	-63.8
2000	0.262	189.2	3.157	62.8	0.162	77.1	0.429	-65.6
2200	0.254	182.2	2.905	59.2	0.181	76.8	0.432	-67.6
2400	0.253	176.0	2.700	55.5	0.199	75.9	0.435	-70.7
2600	0.246	169.6	2.514	52.1	0.218	75.2	0.435	-72.9
2800	0.247	165.1	2.381	49.1	0.239	74.5	0.445	-74.5
3000	0.258	159.8	2.273	45.3	0.263	72.9	0.462	-78.3

$V_{CE}=5V$, $I_C=15mA$, $Z_O=50\Omega$

Freq(MHz)	S11	$\angle S11$	S21	$\angle S21$	S12	$\angle S12$	S22	$\angle S22$
100	0.691	-25.3	18.098	155.5	0.011	81.7	0.936	-12.7
200	0.628	-41.7	16.001	139.7	0.020	76.6	0.847	-22.0
300	0.505	-68.7	14.151	123.7	0.027	76.2	0.766	-27.6
400	0.452	-83.3	12.511	114.0	0.033	77.5	0.706	-31.7
500	0.394	256.4	10.390	103.8	0.040	77.5	0.640	-36.6
600	0.376	245.9	9.124	98.0	0.047	78.9	0.604	-38.8
700	0.360	235.9	7.856	92.7	0.054	79.7	0.573	-41.9
800	0.350	227.5	6.939	88.5	0.062	80.6	0.545	-44.5
900	0.342	220.8	6.231	84.9	0.069	81.0	0.526	-46.7
1000	0.333	214.6	5.620	81.6	0.077	81.4	0.504	-48.7
1200	0.322	204.2	4.714	76.0	0.092	82.0	0.481	-52.4
1400	0.318	195.8	4.071	71.3	0.109	82.3	0.469	-55.0
1600	0.312	188.4	3.591	67.0	0.125	82.2	0.466	-57.4
1800	0.308	181.5	3.219	62.9	0.143	82.0	0.463	-59.6
2000	0.307	175.0	2.925	59.1	0.162	81.6	0.463	-62.0
2200	0.304	168.7	2.690	55.4	0.181	81.0	0.469	-64.6
2400	0.306	163.5	2.501	51.7	0.202	80.0	0.475	-68.2
2600	0.302	157.8	2.327	48.3	0.222	79.1	0.477	-70.9
2800	0.305	153.6	2.202	45.2	0.245	78.2	0.488	-73.1
3000	0.317	149.2	2.101	41.4	0.271	76.3	0.508	-77.4

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S Parameters (Common emitter)

$V_{CE}=8V$, $I_C=20mA$, $Z_O=50\Omega$

