

$$f = 2000 \quad X(f) = e^{-j\pi f(K-1)/N} \frac{\sin(\pi f K/N)}{\sin(\pi f/N)}$$

Sampling Frequency, Fs = 32000												
	f	N	K	Re	Im	MODULUS				X(f)	dBm	
0	0	16	8							8.000	48.062	1.000
2000	1	16	8	0.195090322	0.98078528	1	1	0.195		5.126	44.195	0.641
4000	2									0.000	0.000	0.000
				-								
6000	3	16	8	0.555570233	-0.8314696	1	-1	0.556		1.800	35.105	0.225
8000	4									0.000	0.000	0.000
10000	5	16	8	0.831469612	0.55557023	1	1	0.831		1.203	31.603	0.150
12000	6									0.000	0.000	0.000
14000	7	16	8	-0.98078528	-0.1950903	1	-1	0.981		1.020	30.169	0.127
16000	8									0.000	0.000	0.000
18000	9	16	8	0.98078528	-0.1950903	1	1	0.981		1.020	30.169	0.127
20000	10										0.000	0.000
				-								
22000	11	16	8	0.831469612	0.55557023	1	-1	0.831		1.203	31.603	0.150
24000	12										0.000	0.000
26000	13	16	8	0.555570233	-0.83	1	1	0.556		1.800	35.105	0.225
28000	14										0.000	0.000
				-								
30000	15	16	8	0.195090322	0.98	1	-1	0.195		5.126	44.195	0.641



