

			Vs	V	Watts	dBm	dBm 2 line spectra	
0	$F(0) = A \cdot T/2$	2.50E-04	0.5000	0.2500	23.979400	23.979400	1.00	
2000	$F(1/T) = A \cdot T/\pi$	1.59E-04	0.3183	0.1013	20.057003	20.057003	0.64	
4000	$F(2/T) = 0$			0.0000	0.000000	0.000000	0.00	
6000	$F(3/T) = (A \cdot T)/(3 \cdot \pi)$	5.31E-05	0.1061	0.0113	10.514577	10.514577	0.21	
8000	$F(4/T) = 0$			0.0000	0.000000	0.000000	0.00	
10000	$F(5/T) = (A \cdot T)/(5 \cdot \pi)$	3.18E-05	0.0637	0.0041	6.077602	6.077602	0.13	
12000	$F(6/T) = 0$			0.0000	0.000000	0.000000	0.00	
14000	$F(7/T) = (A \cdot T)/(7 \cdot \pi)$	2.27E-05	0.0455	0.0021	3.155042	3.155042	0.09	
16000	$F(8/T) = 0$			0.0000	0.000000	0.000000	0.00	
18000	$F(9/T) = (A \cdot T)/(9 \cdot \pi)$	1.77E-05	0.0354	0.0013	0.972152	0.972152	0.07	
20000	$F(10/T) = 0$			0.0000	0.000000	0.000000	0.00	
22000	$F(11/T) = (A \cdot T)/(11 \cdot \pi)$	1.45E-05	0.0289	0.0008	-0.770851	-0.770851	0.06	
24000	$F(12/T) = 0$			0.0000	0.000000	0.000000	0.00	
26000	$F(13/T) = (A \cdot T)/(13 \cdot \pi)$	1.22E-05	0.0245	0.0006	-2.221865	-2.221865	0.05	
28000	$F(14/T) = 0$			0.0000	0.000000		0.00	
30000	$F(15/T) = (A \cdot T)/(15 \cdot \pi)$	1.06E-05	0.0212	0.0005	-3.464823		0.04	

3.72E-01 W

$P = \frac{1}{T} \int_0^T x(t)^2 dt$

$P = \frac{1}{T} \int_0^T (1)^2 dt = 5.00E-01$

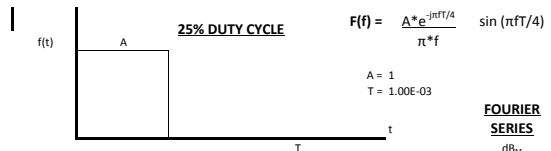
0.5 W

TRANSFORM

1.00
0.64
0.21
0.13
0.09
0.07
0.06
0.05
0.04

SERIES

0.79
1.00
1/3 0.33
1/5 0.20
1/7 0.14
1/9 0.11
1/11 0.09
1/13 0.08



			Vs	V	Watts	dBm	dBm 2 line spectra	
0	$F(0) = A \cdot T/4$	2.50E-04	0.2500	0.0625	17.96	17.96	1.00	
2000	$F(2/T) = -jA \cdot T/2\pi$	1.59E-04	0.1592	0.0253	14.04	17.05	0.64	
4000	$F(4/T) = 0$			0.0000	0.00	14.04	0	
6000	$F(6/T) = -jA \cdot T/6\pi$	5.31E-05	0.0531	0.0028	4.49	7.50	0.21	
8000	$F(8/T) = 0$			0.0000	0.00	0.00	0	
10000	$F(10/T) = -jA \cdot T/10\pi$	3.18E-05	0.0318	0.0010	0.06	3.07	0.13	
12000	$F(12/T) = 0$			0.0000	0.00	4.49	0	
14000	$F(14/T) = -jA \cdot T/14\pi$	2.27E-05	0.0227	0.0005	-2.87	0.14	0.09	
16000	$F(16/T) = 0$			0.0000	0.00	0.00	0	
18000	$F(18/T) = -jA \cdot T/18\pi$	1.77E-05	0.0177	0.0003	-5.05	-2.04	0.07	
20000	$F(20/T) = 0$			0.0000	0.00	0.06	0	
22000	$F(22/T) = -jA \cdot T/22\pi$	1.45E-05	0.0145	0.0002	-6.79	-3.78	0.06	
24000	$F(24/T) = 0$			0.0000	0.00	0.00	0	
26000	$F(26/T) = -jA \cdot T/26\pi$	1.22E-05	0.0122	0.0001	-8.24	-5.23	0.05	
28000	$F(28/T) = 0$			0.0000	0.00		0	
30000	$F(30/T) = -jA \cdot T/30\pi$	1.06E-05	0.0106	0.0001	-9.49		0.04	

0.0930

$P = \frac{1}{T} \int_0^T x(t)^2 dt$

$P = \frac{1}{T} \int_0^T (1)^2 dt = 0.25$

W

0	17.9588	30
2000	10.114005	22.15520492
6000	-8.970845	3.07035473
10000	-17.8448	-5.803595255
14000	-23.68992	-11.64871668
18000	-28.0557	-16.01449546
22000	-31.5417	-19.50050249
26000	-34.44373	-22.40252917
30000	-36.92965	-24.88844544