

Frequency Synthesizer

SSN-3352A-119+

Typical Performance Data

FREQ. (MHz)	POWER OUTPUT (dBm)			HARMONICS (dBc)						VCO CURRENT (mA)			PLL CURENT (mA)		
				F2			F3			-45°C	+25°C	+85°C	-45°C	+25°C	+85°C
	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C						
3132.00	2.88	2.95	2.95	-34.40	-29.87	-28.05	-47.19	-47.36	-56.19	41.81	43.57	44.88	14.90	16.82	19.05
3144.00	2.91	2.95	2.93	-32.01	-29.90	-27.58	-47.63	-47.51	-56.63	41.84	43.61	44.90	14.47	16.37	18.64
3168.50	2.95	3.00	2.98	-30.66	-30.00	-28.92	-46.04	-47.47	-56.90	41.91	43.65	44.95	14.67	16.57	18.91
3193.00	2.92	2.99	3.00	-30.67	-29.89	-29.63	-45.86	-46.28	-56.50	41.91	43.65	44.96	14.73	16.64	19.01
3217.50	2.71	2.76	2.79	-28.47	-30.64	-30.18	-43.39	-44.80	-51.86	41.98	43.72	45.00	14.80	16.72	19.13
3242.00	2.85	2.84	2.83	-30.14	-31.48	-30.24	-42.95	-44.38	-49.40	42.02	43.76	45.06	14.75	16.66	19.09
3266.50	2.87	2.94	2.98	-30.27	-32.15	-32.53	-48.20	-44.74	-47.98	42.09	43.79	45.10	14.90	16.82	19.27
3291.00	2.70	2.75	2.82	-31.82	-32.17	-30.75	-45.24	-44.46	-48.84	42.17	43.88	45.17	14.92	16.84	19.31
3315.50	2.86	2.85	2.87	-33.63	-33.63	-33.99	-45.95	-44.36	-48.70	42.22	43.93	45.21	14.99	16.92	19.40
3340.00	3.00	3.02	3.05	-33.36	-33.49	-33.51	-43.63	-44.50	-47.86	42.29	43.96	45.23	14.89	16.80	19.29
3352.00	2.94	2.98	3.03	-31.82	-32.90	-32.98	-41.81	-44.48	-47.32	42.33	43.99	45.25	14.46	16.36	18.80

FREQ. (MHz)	PHASE NOISE (dBc/Hz) @ OFFSETS														
	-45°C					+25°C					+85°C				
	100Hz	1kHz	10kHz	100kHz	1MHz	100Hz	1kHz	10kHz	100kHz	1MHz	100Hz	1kHz	10kHz	100kHz	1MHz
3132.00	-80.39	-89.98	-94.58	-117.94	-138.87	-74.73	-88.13	-92.40	-116.98	-137.51	-75.10	-89.87	-91.29	-115.23	-135.54
3144.00	-76.54	-92.17	-93.87	-117.96	-138.74	-75.12	-90.71	-92.38	-116.97	-137.41	-78.20	-90.91	-90.82	-115.13	-135.69
3168.50	-77.83	-93.28	-92.89	-117.84	-138.60	-76.00	-88.04	-92.46	-116.80	-137.35	-75.11	-89.39	-91.13	-115.23	-135.65
3193.00	-80.72	-90.75	-92.92	-117.52	-138.35	-75.70	-89.95	-91.63	-116.68	-137.09	-76.35	-86.55	-91.36	-115.16	-135.64
3217.50	-80.81	-92.71	-93.10	-117.35	-138.18	-79.23	-88.69	-91.35	-116.56	-137.13	-79.76	-90.17	-91.20	-115.13	-135.66
3242.00	-79.34	-92.46	-92.82	-117.10	-138.03	-74.23	-90.15	-91.96	-116.28	-136.89	-78.50	-90.26	-90.68	-114.92	-135.44
3266.50	-78.51	-92.42	-92.72	-116.80	-137.64	-77.39	-89.16	-91.56	-115.88	-136.68	-76.10	-90.26	-91.14	-114.66	-135.36
3291.00	-79.44	-90.33	-92.99	-116.62	-137.52	-74.40	-91.72	-91.71	-115.80	-136.43	-76.95	-91.62	-90.43	-114.70	-135.11
3315.50	-77.29	-91.06	-92.79	-116.13	-137.05	-73.57	-88.13	-91.49	-115.81	-136.29	-76.67	-88.56	-91.20	-114.94	-135.26
3340.00	-77.30	-89.08	-91.87	-116.79	-137.99	-74.90	-89.54	-91.29	-116.22	-136.87	-76.59	-86.97	-90.60	-115.39	-135.87
3352.00	-77.79	-90.23	-93.11	-117.20	-137.96	-75.00	-89.75	-91.43	-116.56	-137.23	-78.70	-86.22	-90.96	-115.49	-135.97

REV. X1

SSN-3352A-119+

100531

Page 1 of 3



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED RoHS compliant

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



Typical Performance Data

COMPARISON SPURIOUS ORDER	COMPARISON SPURIOUS @Fcarrier 3132MHz± (n*Fcomparison) (dBc) NOTE 1			COMPARISON SPURIOUS @Fcarrier 3242MHz± (n*Fcomparison) (dBc) NOTE 1			COMPARISON SPURIOUS @Fcarrier 3352MHz± (n*Fcomparison) (dBc) NOTE 1		
	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C
-5	-98.77	-98.08	-99.60	-98.78	-100.34	-99.45	-102.00	-101.72	-102.85
-4	-92.09	-94.93	-94.82	-96.97	-99.18	-97.49	-101.23	-101.34	-98.46
-3	-99.42	-97.58	-99.91	-99.60	-98.31	-99.69	-99.75	-98.95	-101.20
-2	-87.40	-87.16	-87.54	-90.00	-89.65	-89.04	-90.29	-90.45	-89.56
-1	-95.96	-101.48	-110.44	-102.57	-105.89	-108.85	-96.61	-102.25	-109.06
0 ^{note 2}	-	-	-	-	-	-	-	-	-
+1	-95.67	-95.93	-95.39	-95.45	-95.17	-93.99	-92.49	-93.44	-95.54
+2	-98.31	-94.69	-95.83	-102.40	-100.84	-99.56	-100.34	-100.54	-98.23
+3	-95.44	-100.77	-97.59	-98.93	-99.78	-99.09	-99.37	-100.02	-103.07
+4	-94.34	-95.30	-95.50	-100.00	-98.56	-99.00	-103.42	-100.54	-99.29
+5	-109.16	-108.84	-115.21	-113.38	-114.06	-117.35	-110.90	-118.47	-112.14

Note 1: Comparison frequency 26 MHz

Note 2: All spurs are referenced to carrier signal (n=0).

REFERENCE SPURIOUS ORDER	REFERENCE SPURIOUS @Fcarrier 3132MHz± (n*Reference) (dBc) NOTE 3			REFERENCE SPURIOUS @Fcarrier 3242MHz± (n*Reference) (dBc) NOTE 3			REFERENCE SPURIOUS @Fcarrier 3352MHz± (n*Reference) (dBc) NOTE 3		
	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C
-5	-89.81	-94.14	-100.25	-97.45	-100.10	-112.72	-97.30	-100.01	-104.94
-4	-92.32	-93.81	-93.82	-105.08	-104.46	-101.41	-108.13	-110.02	-102.20
-3	-98.54	-99.03	-96.59	-112.88	-104.08	-99.73	-114.89	-105.11	-98.92
-2	-92.09	-94.93	-94.82	-96.97	-99.18	-97.49	-101.23	-101.34	-98.46
-1	-87.40	-87.16	-87.54	-90.00	-89.65	-89.04	-90.29	-90.45	-89.56
0 ^{note 4}	-	-	-	-	-	-	-	-	-
+1	-98.31	-94.69	-95.83	-102.40	-100.84	-99.56	-100.34	-100.54	-98.23
+2	-94.34	-95.30	-95.50	-100.00	-98.56	-99.00	-103.42	-100.54	-99.29
+3	-107.64	-114.42	-109.44	-108.96	-109.57	-106.28	-110.58	-110.57	-105.60
+4	-96.40	-96.98	-95.29	-111.64	-103.51	-98.63	-111.85	-104.83	-96.69
+5	-90.48	-92.12	-95.48	-97.49	-96.21	-99.02	-97.96	-97.68	-99.85

Note 3: Reference frequency 52 MHz

Note 4: All spurs are referenced to carrier signal (n=0).

Typical Performance Data

STEP SIZE SPURIOUS ORDER	0.5 STEP SIZE & STEP SIZE SPURIOUS @ Fcarrier 3132 MHz± (n*Fstep size) (dBc) NOTE 5			0.5 STEP SIZE & STEP SIZE SPURIOUS @ Fcarrier 3242 MHz± (n*Fstep size) (dBc) NOTE 5			0.5 STEP SIZE & STEP SIZE SPURIOUS @ Fcarrier 3352 MHz± (n*Fstep size) (dBc) NOTE 5		
	n	-45°C	+25°C	+85°C	-45°C	+25°C	+85°C	-45°C	+25°C
-5.0	-111.93	-113.04	-110.36	-105.92	-110.68	-109.48	-108.42	-112.27	-110.64
-4.5	-107.27	-107.49	-106.03	-111.50	-107.11	-107.54	-109.96	-106.13	-111.21
-4.0	-108.37	-111.14	-108.38	-107.28	-110.31	-106.80	-109.76	-111.47	-108.32
-3.5	-108.49	-106.43	-109.05	-104.00	-106.71	-104.02	-109.20	-106.26	-107.45
-3.0	-106.56	-106.92	-104.90	-104.50	-104.71	-105.17	-106.35	-100.04	-104.20
-2.5	-101.13	-101.25	-102.25	-100.34	-99.57	-101.68	-101.57	-104.20	-102.96
-2.0	-99.41	-98.89	-100.60	-97.05	-99.33	-98.27	-96.27	-97.27	-95.11
-1.5	-95.66	-96.21	-90.83	-90.08	-94.46	-90.65	-93.95	-94.07	-89.97
-1.0	-83.93	-85.44	-85.72	-86.19	-83.61	-87.75	-80.11	-77.06	-87.40
-0.5	-73.51	-71.36	-68.07	-75.00	-72.24	-70.79	-80.12	-72.14	-82.79
0 ^{note 6}	-	-	-	-	-	-	-	-	-
+0.5	-75.10	-70.48	-69.13	-74.45	-73.58	-72.57	-77.88	-69.59	-81.44
+1.0	-83.60	-88.33	-86.23	-83.65	-82.60	-84.95	-82.63	-78.41	-85.02
+1.5	-96.00	-96.43	-94.64	-90.18	-93.16	-90.09	-93.67	-93.34	-91.20
+2.0	-97.97	-99.68	-100.76	-96.39	-96.85	-100.37	-94.79	-97.71	-97.24
+2.5	-104.71	-103.85	-100.68	-104.36	-99.60	-102.44	-99.67	-105.20	-100.91
+3.0	-106.51	-104.37	-104.43	-107.67	-102.28	-103.35	-106.99	-100.91	-105.50
+3.5	-105.92	-105.19	-108.43	-107.20	-106.57	-105.13	-107.61	-108.44	-104.03
+4.0	-108.39	-110.56	-110.11	-105.93	-110.84	-105.06	-108.64	-104.34	-108.96
+4.5	-110.20	-109.42	-107.86	-109.07	-105.69	-107.78	-110.19	-106.48	-110.15
+5.0	-113.85	-110.57	-110.70	-108.21	-113.39	-110.89	-110.17	-109.51	-112.90

Note 5: Step size 125 kHz

Note 6: All spurs are referenced to carrier signal (n=0).