

Coaxial

Voltage Controlled Oscillator

ZX95-625A+

Wide Band 350 to 700 MHz

Features

- Wide Band Frequency
- Low Phase Noise
- Low Pushing
- Protected by US patent 6,790,049

Applications

- R & D
- LAB
- Instrumentation
- Wireless communications
- Broadcast equipment



CASE STYLE: GB956

Connectors	Model	Price	Qty.
SMA	ZX95-625A-S+	\$ 49.95 ea.	(1-9)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

Electrical Specifications

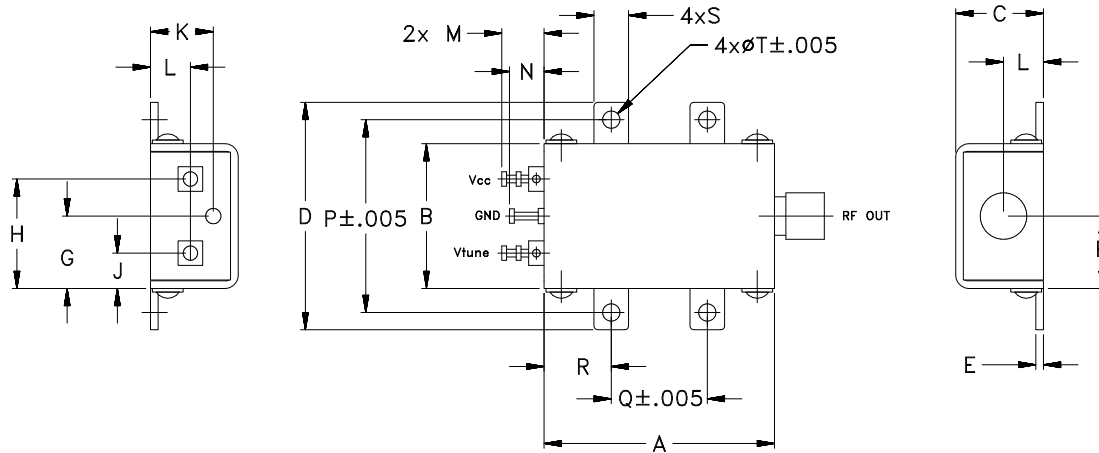
MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE dBc/Hz SSB at offset frequencies, kHz				TUNING				NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)		PULLING pk-pk @ 12 dB Br (MHz)	PUSHING (MHz/V)	DC OPERATING POWER		
	Min.	Max.		Typ.	1	10	100	1000	VOLTAGE RANGE (V)	SENSI-TIVITY (MHz/V)	PORT CAP (pF)		3 dB MODULATION BANDWIDTH (MHz)	Typ.			Max.	Typ.	Max.
ZX95-625A+	350	700	+6.2	-78	-102	-123	-143	0.3	18	15 - 30	170	20	-90	-15	-	1	0.2	10	30

Maximum Ratings

Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vcc)	12V
Absolute Max. Tuning Voltage (Vtune)	20V
All specifications	50 ohm system

Permanent damage may occur if any of these limits are exceeded.

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	WT.
1.20	.75	.46	1.18	.04	.38	.45	.57	.18	.33	.21	.22	.18	1.00	.50	.35	.18	.106	GRAM
30.48	19.05	11.68	29.97	1.02	9.65	11.43	14.48	4.57	8.38	5.33	5.59	4.57	25.40	12.70	8.89	4.57	2.69	35.0



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

IF/RF MICROWAVE COMPONENTS

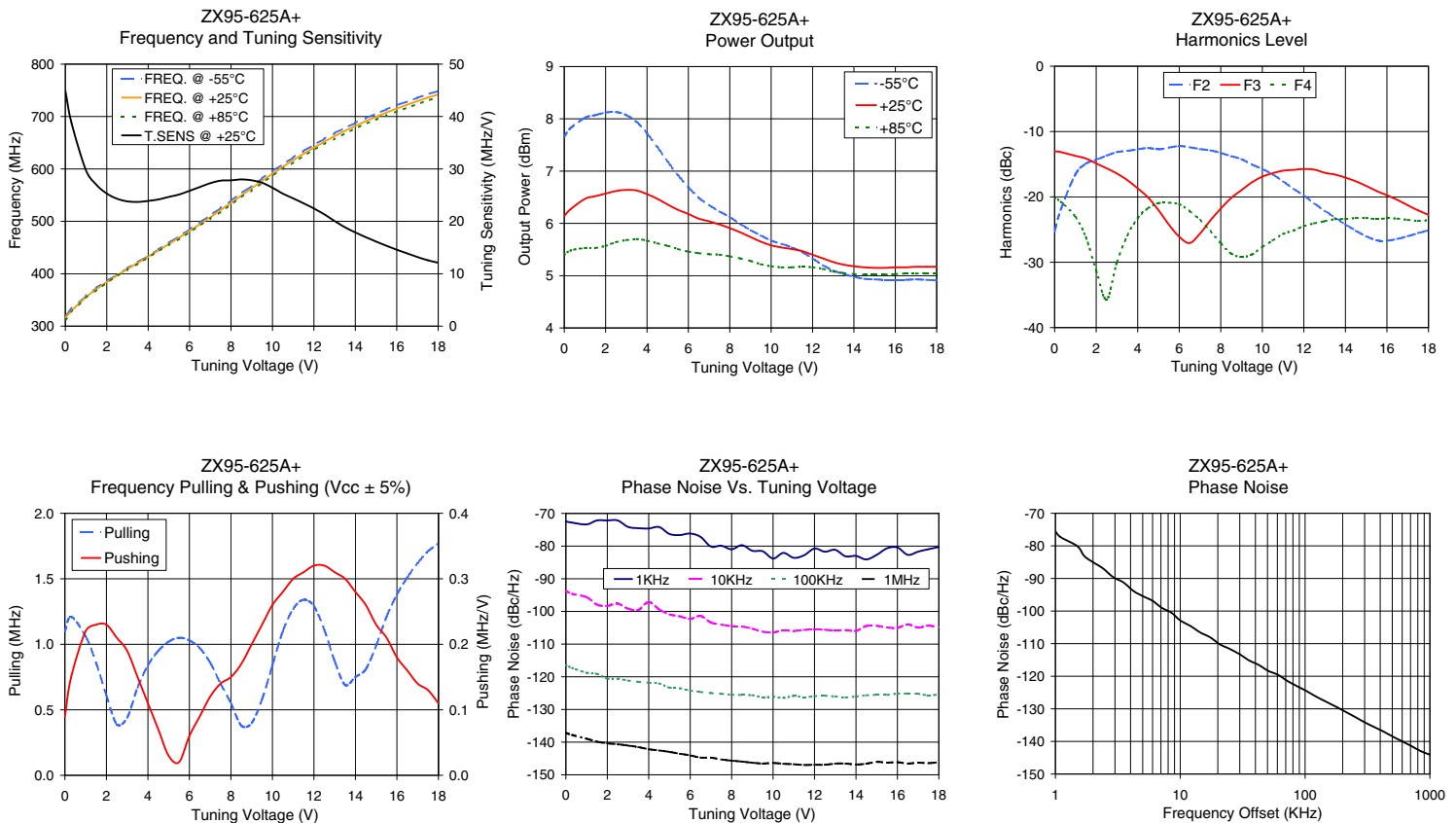
REV. OR
M122038
EDR-9102F2
ZX95-625A+
RAV
090513
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Performance Data & Curves*

ZX95-625A+

V TUNE	TUNE SENS (MHz/V)	FREQUENCY (MHz)			POWER OUTPUT (dBm)			Icc (mA)	HARMONICS (dBc)			FREQ. PUSH (MHz/V)	FREQ. PULL (MHz)	PHASE NOISE (dBc/Hz) at offsets				FREQ OFFSET (KHz)	PHASE NOISE at 488 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	44.97	320.1	316.1	311.9	7.66	6.14	5.40	22.31	-25.3	-13.0	-20.2	0.09	1.10	-72.5	-93.7	-116.4	-137.2	1.0	-75.58
0.30	38.77	333.0	329.5	326.5	7.82	6.27	5.48	22.39	-21.9	-13.2	-20.7	0.15	1.21	-72.8	-94.6	-117.3	-137.8	2.0	-85.02
1.00	29.72	358.6	355.9	354.1	8.02	6.47	5.53	22.55	-16.6	-13.7	-23.1	0.22	1.06	-73.4	-95.6	-118.8	-139.0	3.5	-91.18
2.00	25.31	386.3	384.2	382.8	8.12	6.57	5.57	22.71	-14.3	-14.9	-31.3	0.23	0.61	-72.1	-98.3	-120.5	-140.3	6.0	-96.86
3.00	23.81	410.4	409.0	407.6	8.07	6.64	5.68	22.82	-13.2	-16.4	-30.0	0.19	0.44	-74.1	-99.1	-121.2	-141.1	8.5	-100.51
4.00	23.90	434.3	432.8	431.1	7.72	6.56	5.67	22.92	-12.7	-18.7	-23.3	0.11	0.84	-74.6	-97.1	-121.8	-142.2	10.0	-102.87
5.00	24.66	459.1	456.8	454.8	7.18	6.36	5.57	23.01	-12.7	-22.0	-21.0	0.03	1.02	-76.3	-100.9	-123.3	-143.0	20.8	-110.24
6.00	25.83	484.8	481.7	479.3	6.69	6.18	5.46	23.09	-12.2	-26.1	-21.1	0.06	1.03	-76.2	-102.3	-124.2	-144.1	35.5	-115.13
6.50	26.56	498.1	494.6	491.9	6.49	6.09	5.43	23.14	-12.4	-27.1	-22.2	0.09	0.97	-77.2	-101.4	-124.7	-144.7	60.7	-119.56
7.00	27.29	511.7	507.9	505.0	6.35	6.04	5.41	23.18	-12.7	-25.6	-23.5	0.12	0.86	-80.2	-103.4	-125.0	-144.8	86.7	-123.10
8.00	27.83	539.7	535.4	532.1	6.12	5.91	5.37	23.27	-13.3	-21.8	-27.1	0.15	0.55	-81.0	-104.5	-125.5	-145.7	100.0	-124.31
9.00	27.83	568.0	563.3	559.7	5.87	5.74	5.28	23.35	-14.2	-19.0	-29.2	0.20	0.40	-81.4	-105.3	-125.6	-146.3	148.1	-127.85
10.00	26.42	595.8	590.9	587.0	5.67	5.58	5.18	23.41	-15.7	-16.9	-27.6	0.26	0.84	-83.8	-106.4	-126.1	-146.4	177.0	-129.35
11.00	24.40	621.8	616.8	612.7	5.54	5.51	5.16	23.47	-17.6	-16.0	-25.7	0.30	1.27	-83.6	-106.0	-125.9	-146.8	211.6	-130.96
12.00	22.44	646.0	640.7	636.3	5.33	5.40	5.16	23.48	-19.8	-15.7	-24.5	0.32	1.29	-80.7	-105.4	-125.9	-146.9	302.4	-134.19
13.00	20.06	668.1	662.6	657.9	5.10	5.26	5.08	23.50	-22.1	-16.3	-23.7	0.31	0.87	-81.1	-105.9	-126.0	-146.6	361.5	-135.66
14.00	17.90	687.8	682.1	677.1	4.98	5.18	5.03	23.52	-24.2	-17.1	-23.4	0.28	0.75	-83.0	-106.0	-126.0	-146.9	507.5	-138.57
15.00	16.14	705.5	699.5	694.3	4.93	5.15	5.02	23.53	-26.0	-18.3	-23.2	0.23	0.99	-82.7	-104.4	-125.5	-146.0	606.7	-140.07
16.00	14.59	721.4	715.2	709.8	4.92	5.16	5.03	23.53	-26.7	-19.7	-23.3	0.18	1.38	-80.4	-105.0	-125.2	-146.2	851.6	-143.03
18.00	12.10	748.8	742.4	736.6	4.91	5.17	5.05	23.54	-25.1	-22.8	-23.6	0.11	1.77	-80.3	-104.9	-125.4	-146.2	1000.0	-144.07

*at 25°C unless mentioned otherwise



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