

Coaxial

Voltage Controlled Oscillator

ZX95-485A+

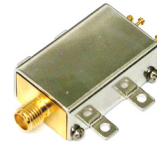
5V Tuning for PLL IC's 450 to 485 MHz

Features

- Linear Tuning characteristics
- Low Phase Noise
- Low Pushing
- Low Pulling
- Protected by US patent 6,790,049

Applications

- R & D
- LAB
- Instrumentation
- Wireless communications
- Point-to-Multipoint



CASE STYLE: GB956

Connectors	Model	Price	Qty.
SMA	ZX95-485A-S+	\$44.95 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.

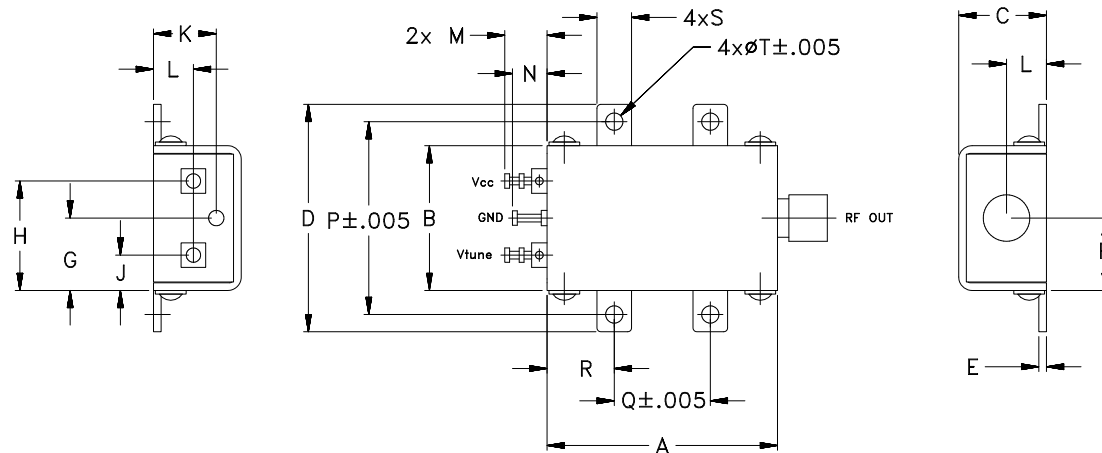
Electrical Specifications

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 (MHz)	PUSHING (MHz/V)	DC OPERATING POWER					
	Min.	Max.		Typ.	1	10	100	1000	VOLTAGE RANGE (V)		SENSITIVITY (MHz/V)		PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)			Typ.	Typ.	Typ.	Typ.	Vcc (volts)	Current (mA)
	Min.	Max.							Min.	Max.												
ZX95-485A+	450	485	+4	-89	-119	-139	-159	0.25	5	12	100	20	-90	-20	-10	0.2	0.4	5	28			

Maximum Ratings

Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vcc)	7V
Absolute Max. Tuning Voltage (Vtune)	7V
All specifications	50 ohm system

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



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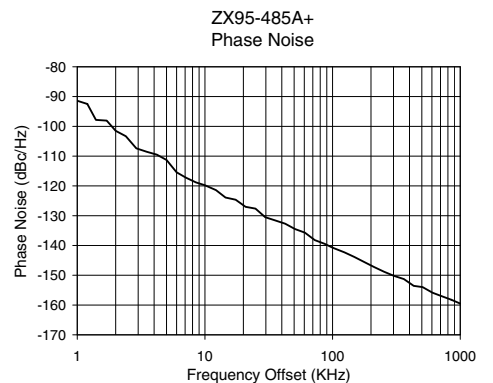
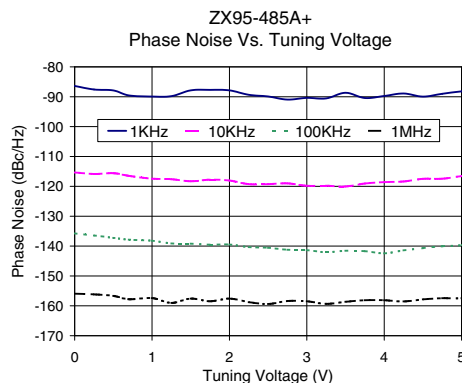
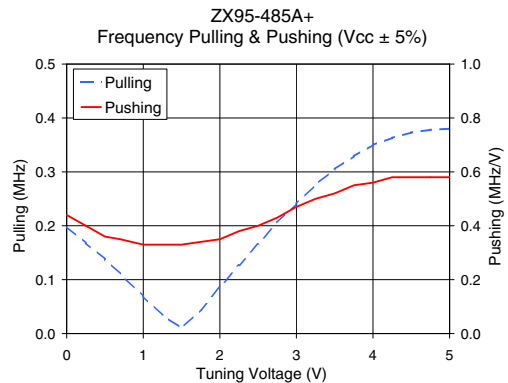
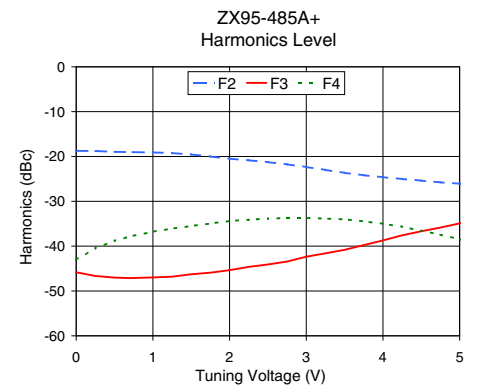
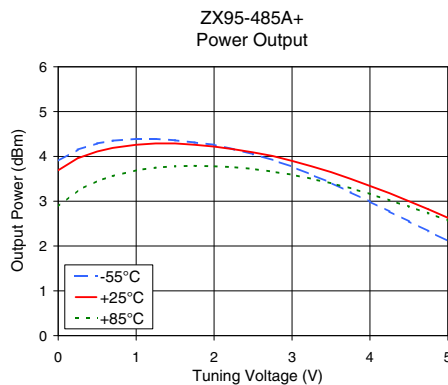
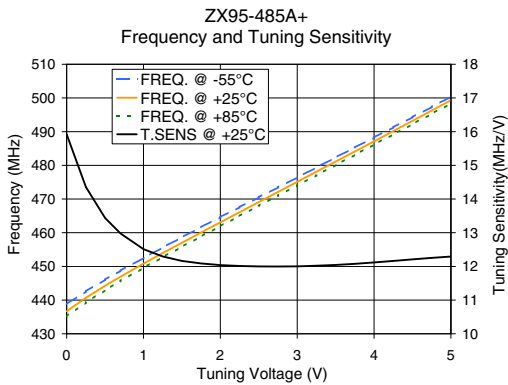
REV. OR
M115158
EDR-8088F2
ZX95-485A+
RAV
080428
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Performance Data & Curves*

ZX95-485A+

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 468 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	15.92	438.8	436.7	435.2	3.90	3.69	2.88	21.24	-18.8	-45.8	-43.1	0.44	0.20	-86.4	-115.4	-135.7	-155.9	1.0	-91.42
0.50	13.44	446.1	444.2	443.0	4.29	4.11	3.45	21.81	-19.0	-47.0	-38.8	0.36	0.14	-87.9	-115.6	-137.2	-156.7	2.0	-101.50
0.70	12.98	448.7	446.9	445.7	4.35	4.19	3.56	21.97	-19.0	-47.1	-37.8	0.35	0.11	-89.6	-116.5	-137.9	-157.8	3.5	-108.54
1.00	12.51	452.5	450.8	449.6	4.39	4.26	3.69	22.18	-19.1	-47.0	-36.8	0.33	0.07	-89.9	-117.4	-138.2	-157.4	6.0	-115.43
1.25	12.29	455.6	454.0	452.7	4.39	4.29	3.75	22.31	-19.2	-46.8	-36.1	0.33	0.03	-89.8	-117.6	-139.1	-159.0	8.5	-118.82
1.50	12.16	458.6	457.0	455.8	4.36	4.29	3.78	22.41	-19.6	-46.3	-35.5	0.33	0.01	-87.9	-118.3	-139.2	-157.6	10.0	-119.78
1.75	12.09	461.6	460.1	458.9	4.31	4.26	3.79	22.49	-20.0	-45.9	-35.0	0.34	0.04	-87.7	-117.8	-139.5	-158.5	20.8	-127.03
2.00	12.04	464.6	463.1	461.9	4.26	4.22	3.78	22.54	-20.5	-45.4	-34.4	0.35	0.09	-87.9	-118.1	-139.5	-157.6	35.5	-131.57
2.25	12.01	467.6	466.1	465.0	4.16	4.16	3.76	22.57	-20.9	-44.6	-34.1	0.38	0.13	-89.4	-119.3	-140.3	-158.8	60.7	-135.70
2.50	12.00	470.5	469.1	468.0	4.05	4.09	3.72	22.58	-21.3	-44.1	-33.9	0.40	0.17	-89.9	-119.3	-140.6	-159.4	86.7	-139.46
2.75	12.00	473.5	472.1	471.0	3.92	4.01	3.66	22.57	-21.8	-43.4	-33.7	0.43	0.21	-91.0	-119.0	-141.2	-158.4	100.0	-140.74
3.00	12.00	476.4	475.1	474.0	3.77	3.90	3.59	22.56	-22.4	-42.4	-33.7	0.47	0.24	-90.4	-119.8	-141.4	-158.5	148.1	-143.85
3.25	12.02	479.4	478.1	477.1	3.59	3.78	3.50	22.52	-23.0	-41.6	-33.9	0.50	0.28	-90.6	-119.8	-142.1	-159.3	177.0	-145.57
3.50	12.04	482.3	481.1	480.1	3.41	3.65	3.40	22.47	-23.7	-40.8	-34.0	0.52	0.31	-88.7	-120.1	-141.6	-158.6	211.6	-147.23
3.75	12.08	485.3	484.1	483.1	3.20	3.50	3.29	22.41	-24.2	-39.8	-34.5	0.55	0.33	-90.4	-119.0	-141.7	-158.1	302.4	-150.21
4.00	12.12	488.3	487.1	486.2	2.99	3.34	3.16	22.35	-24.6	-38.7	-35.0	0.56	0.35	-89.8	-118.6	-142.4	-158.1	361.5	-151.28
4.25	12.16	491.3	490.2	489.2	2.77	3.18	3.02	22.27	-25.0	-37.6	-35.7	0.58	0.36	-88.9	-118.4	-141.4	-158.5	507.5	-153.97
4.50	12.21	494.3	493.2	492.2	2.55	3.00	2.88	22.19	-25.4	-36.7	-36.6	0.58	0.37	-90.0	-117.5	-140.7	-157.8	606.7	-155.87
4.75	12.25	497.3	496.3	495.3	2.33	2.82	2.73	22.09	-25.8	-35.9	-37.4	0.58	0.38	-89.0	-117.5	-140.0	-157.4	851.6	-158.22
5.00	12.29	500.4	499.3	498.3	2.11	2.63	2.57	21.99	-26.1	-34.9	-38.5	0.58	0.38	-88.2	-116.6	-139.7	-157.5	1000.0	-159.51

*at 25°C unless mentioned otherwise



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