

Coaxial Voltage Controlled Oscillator

ZX95-765+ ZX95-765

Linear Tuning 485 to 765 MHz

Features

- excellent harmonic suppression
- linear tuning
- low pushing & pulling
- protected by US patent 6,790,049



Applications

- r & d
- lab
- instrumentation
- test equipment

CASE STYLE: GB956			
Connectors	Model	Price	Qty.
SMA	ZX95-765-S+	\$40.95 ea.	(1-9)
SMA	ZX95-765-S	\$40.95 ea.	(1-9)

+RoHS Compliant
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Electrical Specifications

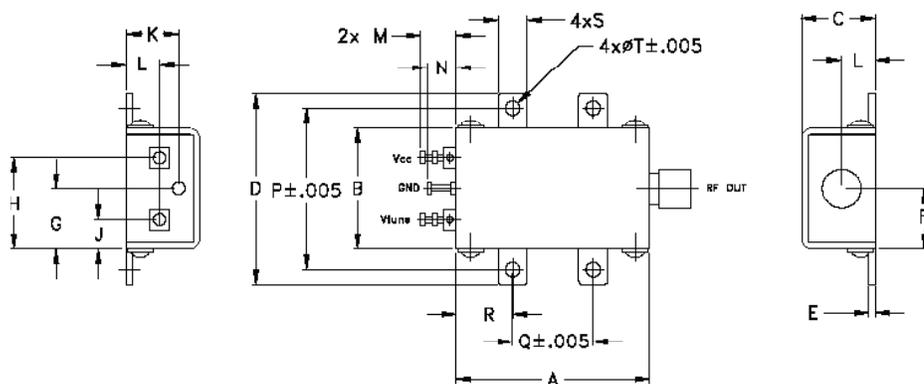
MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE dBc/Hz SSB at offset frequencies, kHz				TUNING				NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)		PULLING pk-pk @12 dB (MHz)	PUSHING (MHz/V)	DC OPERATING POWER		
	Min.	Max.		Typ.	1	10	100	1000	VOLTAGE RANGE (V)	SENSI- TIVITY (MHz/V)	PORT CAP (pF)		3 dB MODULATION BANDWIDTH (MHz)	Typ.			Typ.	Max.	Typ.
ZX95-765(+)	485	765	+8	-77	-98	-118	-138	1	16	28 - 33	280	0.6	-90	-35	-24	1	0.5	12	22

Maximum Ratings

Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vcc)	13V
Absolute Max. Tuning Voltage (Vtune)	18V
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	.38	.57	.18	.33	.21	.22	.18	1.00	.50	.35	.18	.106	grams
30.48	19.05	11.68	29.97	1.02	9.65	9.65	14.48	4.57	8.38	5.33	5.59	4.57	25.40	12.70	8.89	4.57	2.69	35.0



For detailed performance specs & shopping online see web site

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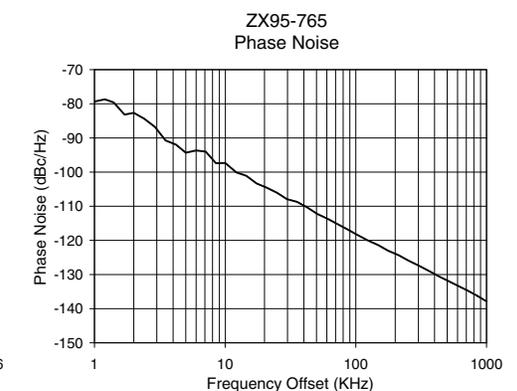
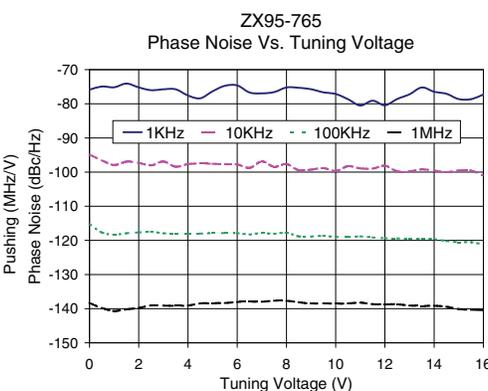
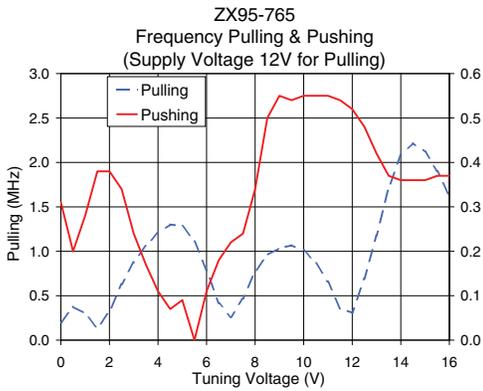
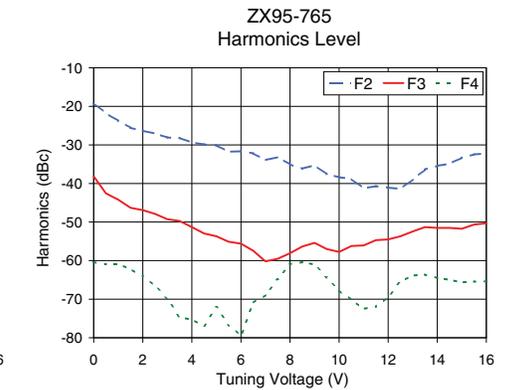
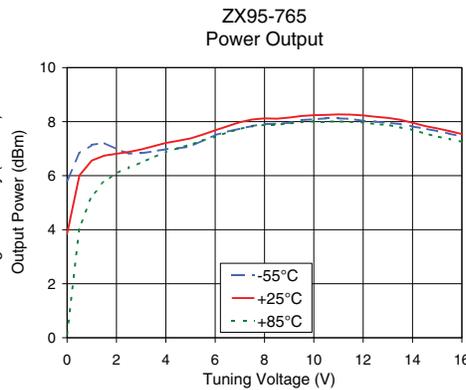
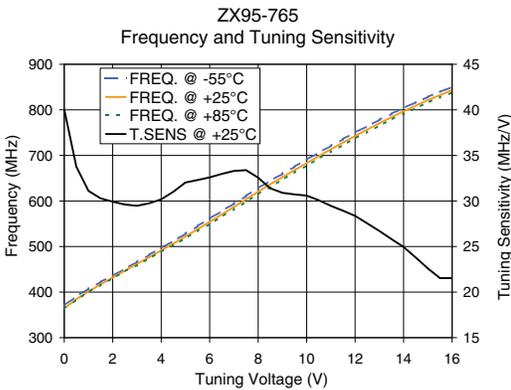
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Performance Data & Curves*

ZX95-765+ ZX95-765

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 620 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	40.03	370.5	364.5	363.4	5.82	3.85	0.14	16.33	-19.2	-38.2	-60.4	0.31	0.20	-75.9	-94.9	-115.2	-138.3	1.0	-79.34
0.50	33.76	390.9	384.5	383.3	6.83	6.01	4.07	16.41	-21.8	-42.6	-60.9	0.20	0.38	-75.0	-96.6	-117.7	-139.8	2.0	-82.66
1.00	31.10	407.7	401.4	400.0	7.14	6.56	5.25	16.43	-23.8	-44.2	-60.9	0.28	0.30	-75.2	-97.9	-118.3	-140.7	3.5	-90.73
2.00	29.93	435.9	432.1	430.5	6.98	6.81	6.09	16.44	-26.3	-46.9	-64.0	0.38	0.32	-75.2	-97.3	-117.7	-139.8	5.0	-94.31
3.00	29.47	466.4	461.8	459.5	6.83	6.97	6.49	16.45	-28.1	-49.3	-69.8	0.24	0.88	-75.8	-96.9	-117.9	-139.1	8.5	-97.39
4.00	30.18	496.8	491.4	488.3	6.98	7.21	6.86	16.46	-29.4	-51.3	-75.3	0.11	1.21	-77.6	-97.7	-118.0	-139.1	10.0	-97.33
5.00	32.03	528.2	522.0	518.1	7.08	7.38	7.15	16.48	-30.1	-53.7	-72.1	0.09	1.28	-76.3	-97.6	-117.9	-138.3	20.8	-104.58
6.00	32.59	561.4	554.2	549.6	7.50	7.68	7.45	16.50	-31.7	-55.6	-79.5	0.11	0.79	-74.6	-97.8	-117.9	-138.1	35.5	-108.73
7.00	33.29	594.4	587.0	581.9	7.74	7.98	7.73	16.53	-33.9	-60.2	-68.9	0.22	0.26	-77.0	-96.9	-117.8	-138.0	50.7	-112.27
8.00	32.55	628.1	620.3	614.7	7.91	8.12	7.88	16.56	-35.1	-58.1	-60.9	0.34	0.77	-75.2	-97.7	-117.8	-137.7	86.7	-116.83
8.50	31.39	644.5	636.6	631.0	7.92	8.11	7.89	16.57	-36.2	-56.4	-60.4	0.50	0.96	-75.3	-99.4	-118.8	-138.1	100.0	-118.16
9.00	30.89	659.9	652.3	646.9	7.96	8.15	7.93	16.59	-35.3	-55.4	-61.0	0.55	1.04	-75.7	-99.3	-118.9	-138.5	148.1	-121.37
9.50	30.72	675.2	667.7	662.4	8.06	8.21	7.98	16.58	-37.6	-57.0	-64.4	0.54	1.07	-76.6	-98.8	-118.7	-138.4	211.6	-124.31
10.00	30.59	690.7	683.1	677.7	8.09	8.24	8.01	16.58	-38.4	-57.8	-67.7	0.55	1.01	-77.1	-99.7	-119.0	-138.6	361.5	-128.94
11.00	29.47	721.0	713.4	708.1	8.12	8.27	8.01	16.58	-41.3	-56.1	-72.5	0.55	0.66	-80.5	-98.9	-118.8	-138.2	432.2	-130.6
12.00	28.36	750.2	742.6	737.3	8.03	8.23	7.97	16.56	-41.1	-54.5	-69.4	0.52	0.31	-80.4	-98.2	-119.4	-138.7	507.5	-131.86
13.00	26.70	778.0	770.6	765.3	7.96	8.14	7.88	16.55	-39.0	-52.4	-63.9	0.42	1.18	-77.2	-99.8	-119.5	-139.1	600.0	-133.24
14.00	24.95	804.2	796.8	791.6	7.82	7.96	7.69	16.53	-35.4	-51.5	-64.5	0.36	2.08	-76.5	-99.6	-119.6	-139.2	712.4	-134.65
15.00	22.60	828.3	821.2	816.0	7.65	7.75	7.45	16.51	-33.3	-51.7	-65.6	0.36	2.12	-78.6	-99.5	-120.6	-140.1	851.6	-136.25
16.00	21.54	850.2	843.3	838.3	7.46	7.54	7.25	16.49	-32.3	-50.3	-65.4	0.37	1.62	-77.3	-101.0	-121.2	-140.4	1000.0	-137.87

*at 25°C unless mentioned otherwise



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