

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

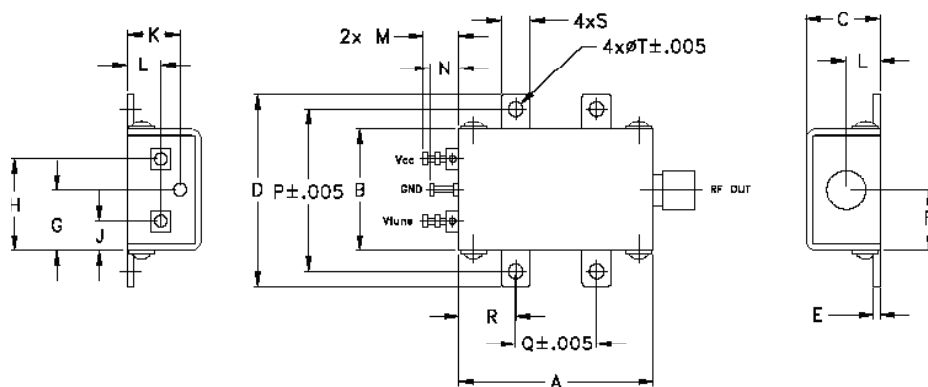
MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE				TUNING					NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)		PULLING pk-pk @12 dB _r (MHz)	PUSHING (MHz/V)	DC OPERATING POWER	
				dBc/Hz SSB at offset frequencies,kHz				VOLTAGE RANGE (V)	SENSI- TIVITY (MHz/V)	PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)	V _{cc} (volts)						Current (mA)	
	Typ.				Min.	Max.	Typ.						Typ.	Typ.	Typ.	Max.	Typ.		Max.
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

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IF/RF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp.

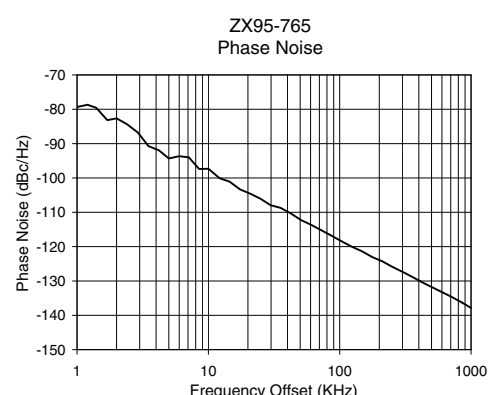
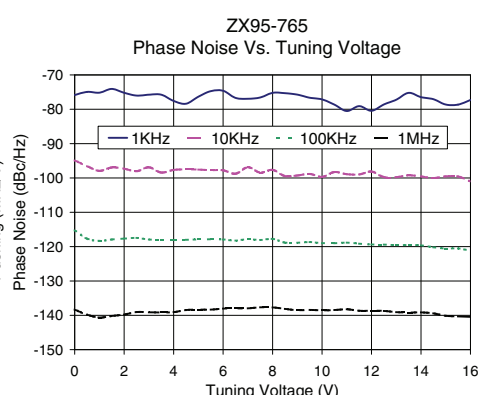
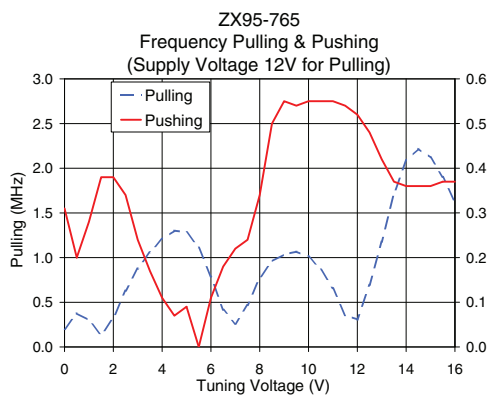
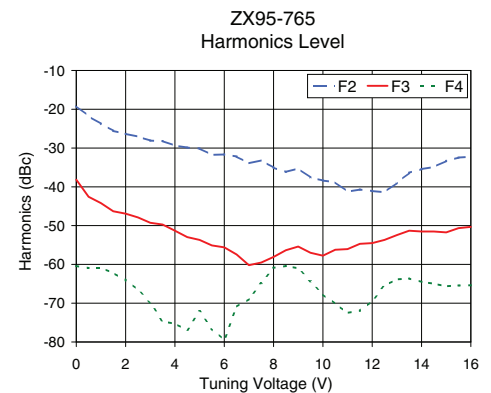
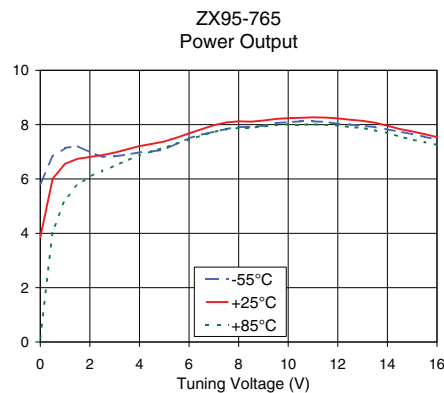
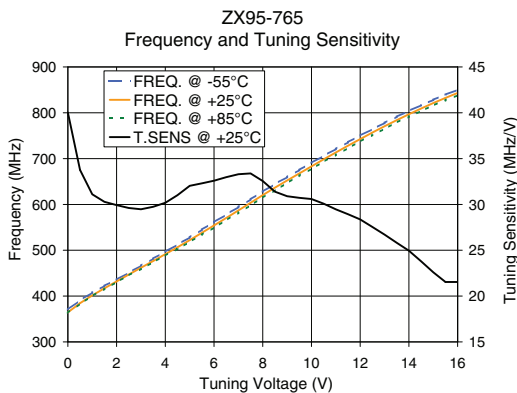
REV. A
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ZX95-765
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Page 1 of 2

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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