Coaxial

Voltage Controlled Oscillator

ZX95-3570+

Linear Tuning 3230 to 3570 MHz

Features

- Linear tuning characteristics
- Low phase noise
- Low pushing
- Protected by US patent 6,790,049

CASE STYLE: GB956

Connectors	Model	Price	Qty.
SMA	ZX95-3570-S+	$40.95 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.

Applications

- R&D
- LAB
- Instrumentation
- Wireless communications
- Military

Electrical Specifications

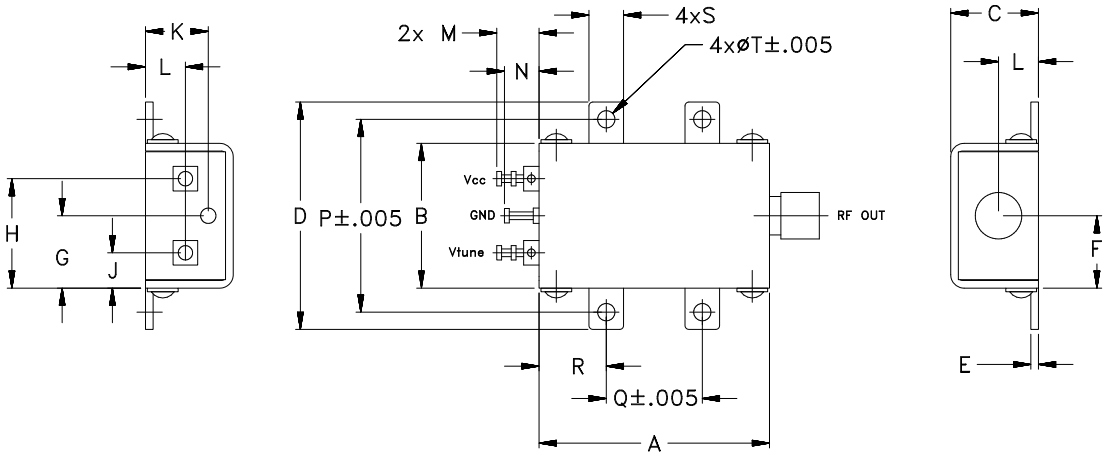
MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE dBc/Hz SSB at offset frequencies,kHz Typ.				TUNING VOLTAGE RANGE (V)		SENSI-TIVITY (MHz/V)	PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)	NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)		PULLING pk-pk @12 dBr (MHz)	PUSHING (MHz/V)	DC OPERATING POWER	
																		Vcc (volts)	Current (mA)
	Min.	Max.	Typ.	1	10	100	1000	Min.	Max.	Typ.	Typ.	Typ.	Typ.	Typ.	Max.	Typ.	Typ.		Max.
ZX95-3570+	3230	3570	+6	-75	-99	-120	-140	0.5	16	27- 33	18	100	-90	-22	-13	6.5	0.7	5	40

Maximum Ratings

Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vcc)	5.5V
Absolute Max. Tuning Voltage (Vtune)	18.0V
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

REV. OR
M126500
EDR-10090F2
ZX95-3570+
RAV
100224

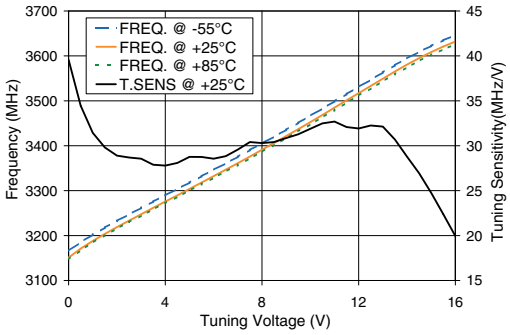
Performance Data & Curves*

ZX95-3570+

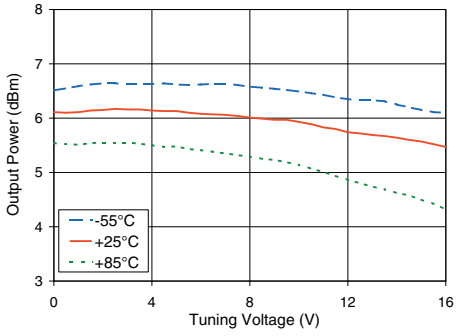
V TUNE	TUNE SENS (MHz/V)	FREQUENCY (MHz)			POWER OUTPUT (dBm)			Icc (mA)	HARMONICS (dBc)			FREQ. PUSH (MHz/V)	FREQ. PULL (MHz)	PHASE NOISE (dBc/Hz) at offsets				FREQ OFFSET (KHz)	PHASE NOISE at 3400 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	39.56	3166.0	3151.1	3146.9	6.51	6.11	5.54	32.69	-19.8	-35.6	-38.5	0.07	6.39	-77.5	-103.1	-123.8	-143.8	1.0	-75.49
0.50	34.45	3185.3	3170.9	3167.4	6.55	6.10	5.52	32.69	-19.6	-34.3	-38.8	0.08	5.62	-78.5	-102.8	-123.6	-143.6	2.0	-83.47
2.00	28.90	3232.6	3218.7	3215.5	6.64	6.15	5.55	32.67	-19.9	-35.1	-39.0	0.26	6.91	-77.0	-102.0	-122.8	-142.8	3.5	-89.68
2.50	28.69	3247.2	3233.2	3229.9	6.64	6.17	5.55	32.66	-20.0	-34.9	-39.9	0.28	6.82	-77.5	-102.1	-122.8	-142.8	6.0	-95.16
3.00	28.56	3261.6	3247.5	3244.1	6.63	6.16	5.55	32.66	-20.3	-34.4	-40.0	0.33	5.51	-76.8	-101.8	-122.5	-142.6	8.5	-98.45
4.50	28.09	3303.7	3289.6	3286.1	6.64	6.13	5.47	32.66	-21.0	-33.5	-40.9	0.39	6.91	-76.5	-101.6	-121.8	-142.0	10.0	-99.63
5.00	28.76	3317.9	3303.7	3300.0	6.62	6.13	5.48	32.65	-21.6	-34.2	-41.5	0.42	8.14	-76.4	-100.7	-121.7	-141.6	20.8	-106.77
6.00	28.56	3346.3	3332.4	3328.6	6.62	6.08	5.41	32.65	-21.9	-34.4	-43.1	0.44	4.16	-76.1	-100.4	-121.4	-141.3	35.5	-111.55
6.50	28.84	3360.6	3346.7	3342.8	6.63	6.07	5.38	32.65	-22.2	-34.8	-44.1	0.46	4.16	-75.7	-100.3	-121.2	-141.4	60.7	-115.96
7.50	30.41	3390.3	3375.9	3371.6	6.61	6.04	5.32	32.64	-22.7	-33.3	-48.7	0.53	8.29	-75.1	-100.1	-120.8	-140.8	86.7	-119.29
8.50	30.41	3420.3	3406.3	3401.7	6.56	5.99	5.25	32.65	-23.0	-32.7	-46.8	0.55	4.28	-74.7	-99.8	-120.5	-140.5	100.0	-120.64
9.00	30.86	3435.5	3421.5	3416.9	6.54	5.97	5.23	32.65	-23.3	-32.5	-43.3	0.58	5.47	-75.8	-100.0	-120.4	-140.4	148.1	-124.09
10.00	31.89	3466.7	3452.6	3447.6	6.49	5.93	5.14	32.64	-23.7	-32.3	-38.5	0.63	9.21	-75.7	-99.2	-119.7	-139.9	177.0	-125.37
11.00	32.69	3499.0	3484.7	3479.4	6.43	5.83	5.01	32.64	-24.0	-30.9	-38.0	0.68	4.72	-74.9	-98.7	-119.3	-139.3	211.6	-126.92
11.50	32.08	3514.9	3501.1	3495.7	6.38	5.80	4.94	32.64	-24.1	-31.2	-38.3	0.67	6.74	-74.5	-98.6	-119.3	-139.4	302.4	-129.88
12.50	32.26	3547.0	3533.1	3527.6	6.33	5.72	4.80	32.63	-24.9	-31.4	-38.5	0.70	9.28	-73.7	-98.4	-119.0	-139.1	361.5	-131.58
13.50	30.69	3579.3	3565.3	3559.2	6.31	5.67	4.69	32.63	-25.3	-32.6	-40.1	0.67	5.63	-73.6	-97.8	-118.3	-138.4	507.5	-134.72
14.00	28.79	3594.5	3580.6	3574.6	6.25	5.64	4.62	32.63	-26.1	-33.2	-41.4	0.59	8.15	-73.9	-97.7	-118.4	-138.4	606.7	-136.18
15.00	24.76	3622.3	3608.5	3602.3	6.15	5.57	4.50	32.62	-26.5	-34.5	-43.6	0.49	10.97	-74.2	-97.6	-118.2	-138.2	712.4	-137.55
16.00	19.94	3645.9	3632.1	3625.6	6.10	5.47	4.32	32.62	-27.0	-35.3	-47.2	0.46	4.69	-74.4	-96.9	-117.6	-137.7	1000.0	-140.52

*at 25°C unless mentioned otherwise

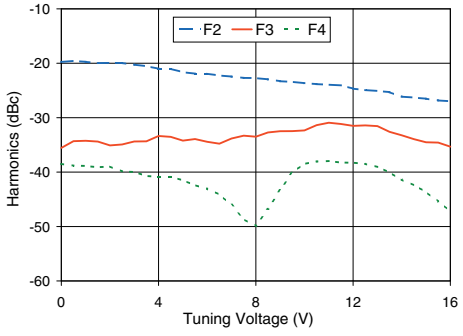
ZX95-3570+
Frequency and Tuning Sensitivity



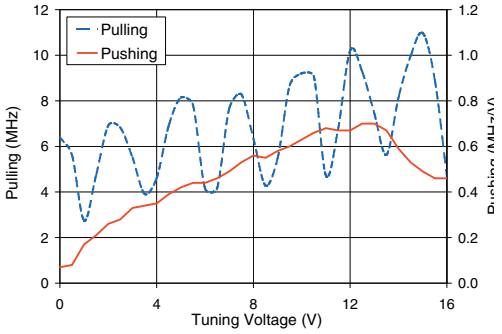
ZX95-3570+
Power Output



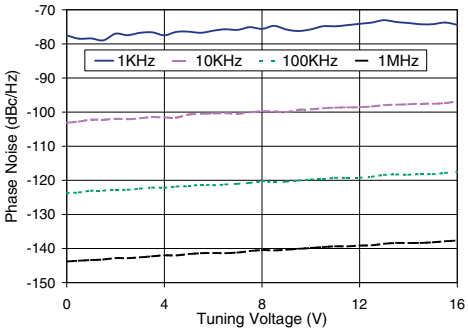
ZX95-3570+
Harmonics Level



ZX95-3570+
Frequency Pulling & Pushing (Vcc ± 5%)



ZX95-3570+
Phase Noise Vs. Tuning Voltage



ZX95-3570+
Phase Noise