

Coaxial

Voltage Controlled Oscillator

ZX95-2600+

50Ω 1650 to 2600 MHz

The Big Deal:

- Wide Band
- Low Phase Noise
- Robust design and construction
- Rigid unibody construction



CASE STYLE: GB956

Product Overview:

The ZX95-2600+ is a Voltage Controlled Oscillator, designed to operate from 1650 to 2600 MHz for Cable TV application. The ZX95-2600+ built using Mini-Circuits proven unibody construction (size of 1.20" x .75" x .46") which integrates the RF connectors with the case body to shield against unwanted signals and noise.

Key Features

Feature	Advantages
Wide Band: from 1650MHz to 2600MHz	The model's wide bandwidth makes it suitable for a wide variety of applications, such as: CATV, military, test equipment etc...
Low Phase Noise: -102dBc/Hz typ at 10kHz offset	Low phase noise improves system EVM (Error Vector Magnitude).
Good Pushing, 1MHz/V typ.	Provides increased immunity against noisy DC lines and improves output frequency stability vs. variations in supply voltage.
Robust design and construction	Each internal component of the ZX95-2600+ is bonded to the substrate, providing better immunity to microphonics and reduced phase hit.

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ISO 9001 ISO 14001 AS 9100 CERTIFIED

For detailed performance specs
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IF/RF MICROWAVE COMPONENTS

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Coaxial

Voltage Controlled Oscillator

ZX95-2600+

Wide Band 1650 to 2600 MHz

Features

- Wide band frequency range
- Low phase noise
- Low pushing
- Protected by US patent 6,790,049

Applications

- R&D
- LAB
- Wireless communications
- Cable TV
- Test equipment
- Military



CASE STYLE: GB956

Connectors	Model	Price	Qty.
SMA	ZX95-2600-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

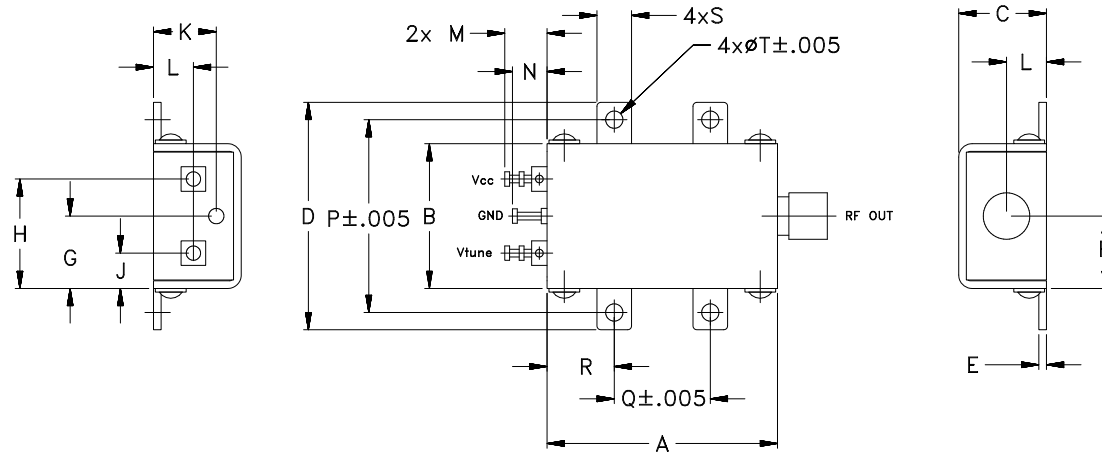
MODEL NO.	FREQ. (MHz)		POWER OUTPUT (dBm)	PHASE NOISE dBc/Hz SSB at offset frequencies, kHz				TUNING					NON HARMONIC SPURIOUS (dBc)	HARMONICS (dBc)		PULLING pk-pk @ 12 dB (MHz)	PUSHING (MHz/V)	DC OPERATING POWER	
	Min.	Max.		Typ.	1	10	100	1000	VOLTAGE RANGE (V)	SENSITIVITY (MHz/V)	PORT CAP (pF)	3 dB MODULATION BANDWIDTH (MHz)		Typ.	Typ.			Max.	Typ.
ZX95-2600+	1650	2600	+6	-75	-102	-122	-142	0.3	28	25-60	50	30	-90	-18	-	2.5	1	10	53

Maximum Ratings

Operating Temperature	-55°C to 85°C
Storage Temperature	-55°C to 100°C
Absolute Max. Supply Voltage (Vcc)	10.5V
Absolute Max. Tuning Voltage (Vtune)	30.0V
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



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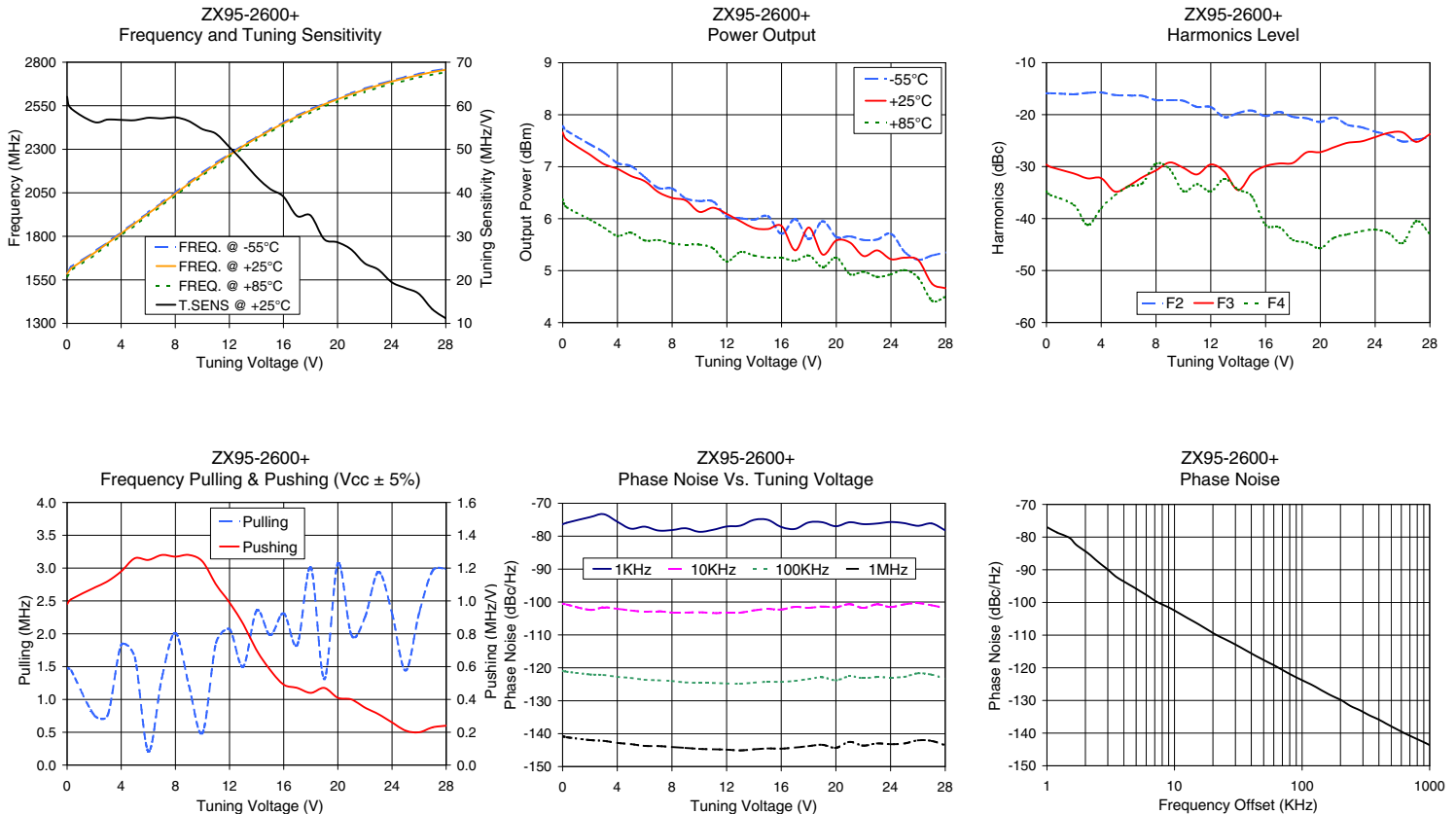
REV. OR
M128690
EDR-9315F2
ZX95-2600+
RAV
110105
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Performance Data & Curves*

ZX95-2600+

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 2125 MHz (dBc/Hz)
		-55°C	+25°C	+85°C	-55°C	+25°C	+85°C		F2	F3	F4			1kHz	10kHz	100kHz	1MHz		
0.00	62.08	1593.1	1585.0	1570.1	7.78	7.66	6.37	44.67	-15.9	-29.6	-34.8	0.98	1.48	-76.4	-100.5	-120.9	-140.8	1.0	-76.96
0.30	59.38	1623.8	1616.1	1602.4	7.69	7.52	6.22	44.69	-15.9	-30.1	-35.5	1.01	1.44	-75.9	-100.8	-121.2	-141.1	2.1	-84.94
2.00	56.27	1711.2	1703.8	1691.7	7.43	7.23	5.98	44.78	-16.1	-31.3	-37.4	1.08	0.76	-74.2	-102.4	-122.0	-142.0	3.5	-92.21
3.00	56.84	1767.6	1760.1	1748.2	7.28	7.05	5.83	44.82	-15.8	-32.3	-41.2	1.12	0.76	-73.3	-101.6	-122.2	-142.2	6.1	-97.88
5.00	56.68	1881.1	1873.7	1861.9	7.01	6.82	5.73	44.98	-16.2	-34.8	-35.6	1.26	1.64	-77.7	-102.6	-123.1	-143.2	8.7	-101.25
7.00	57.09	1995.1	1987.6	1975.9	6.59	6.51	5.59	45.13	-16.4	-32.1	-33.2	1.28	1.33	-78.3	-102.8	-123.8	-143.8	10.0	-102.49
8.00	57.35	2052.5	2044.6	2033.3	6.58	6.40	5.52	45.18	-17.2	-30.7	-29.5	1.27	2.01	-78.2	-103.2	-124.0	-144.1	21.1	-109.87
10.00	54.64	2166.0	2158.5	2147.0	6.34	6.13	5.50	45.32	-17.3	-30.2	-34.7	1.24	0.49	-78.7	-103.1	-124.6	-144.6	36.1	-114.63
11.00	53.58	2220.9	2213.1	2202.3	6.33	6.21	5.43	45.36	-18.5	-31.5	-33.4	1.10	1.86	-78.1	-103.4	-124.6	-144.7	61.6	-119.43
12.00	50.51	2274.3	2266.7	2255.8	6.04	6.09	5.18	45.40	-18.5	-29.6	-34.8	0.99	2.07	-77.1	-103.3	-124.8	-144.9	86.4	-122.59
13.00	47.25	2324.3	2317.2	2305.8	6.01	5.95	5.36	45.42	-20.5	-31.0	-32.4	0.86	1.50	-76.8	-103.2	-124.8	-145.1	100.0	-123.79
14.00	43.70	2371.2	2364.5	2353.2	5.98	5.82	5.29	45.39	-19.7	-34.5	-34.4	0.70	2.35	-75.1	-102.5	-124.5	-144.8	145.0	-127.09
16.00	39.13	2456.4	2449.1	2438.2	5.71	5.86	5.25	45.33	-20.3	-29.9	-41.2	0.49	2.31	-77.2	-102.3	-124.3	-144.6	170.2	-128.54
18.00	34.80	2530.5	2522.9	2511.4	5.61	5.83	5.29	45.24	-20.4	-29.3	-44.1	0.44	3.01	-75.8	-101.8	-123.4	-143.8	203.5	-129.97
20.00	28.63	2594.0	2587.1	2574.8	5.65	5.58	5.25	45.16	-21.4	-27.2	-45.7	0.41	3.07	-77.0	-101.6	-123.8	-144.3	285.6	-133.06
22.00	23.82	2648.7	2642.7	2629.5	5.59	5.28	4.98	45.04	-22.0	-25.4	-43.0	0.35	2.25	-76.4	-101.8	-123.2	-143.6	335.4	-134.52
24.00	19.47	2694.6	2688.9	2675.3	5.71	5.22	4.93	44.94	-23.3	-24.3	-42.1	0.26	2.31	-75.7	-101.5	-122.9	-143.2	470.7	-137.38
25.00	18.14	2715.8	2708.4	2694.7	5.36	5.25	5.01	44.91	-23.9	-23.5	-42.8	0.21	1.44	-76.0	-100.7	-122.7	-143.0	562.6	-138.97
27.00	13.26	2748.9	2743.3	2729.2	5.29	4.75	4.42	44.82	-24.8	-25.2	-40.5	0.23	2.96	-76.1	-101.0	-122.1	-142.2	927.2	-143.03
28.00	11.16	2762.6	2756.6	2742.1	5.35	4.66	4.50	44.83	-24.4	-23.8	-43.0	0.24	2.99	-78.2	-101.8	-123.3	-143.5	1000.0	-143.70

*at 25°C unless mentioned otherwise



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