

Coaxial

Voltage Controlled Oscillator

ZX95-3555+

Linear Tuning 3000 to 3555 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
- Satellite systems
- Defense systems
- SAP/SAB



CASE STYLE: GB956

| Connectors | Model | Price | Qty. |
|------------|--------------|-------------|-------|
| SMA | ZX95-3555-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.

Electrical Specifications

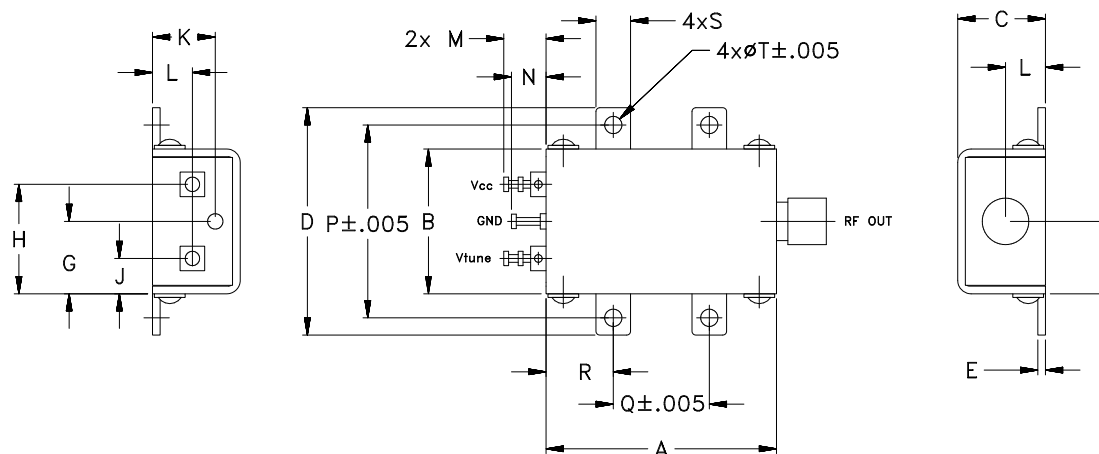
| MODEL NO. | FREQ. (MHz) | | POWER OUTPUT (dBm) | PHASE NOISE dBc/Hz SSB at offset frequencies, kHz | | | | TUNING | | | | | NON HARMONIC SPURIOUS (dBc) | HARMONICS (dBc) | | PULLING pk-pk @ 12 dB (MHz) | PUSHING (MHz/V) | DC OPERATING POWER | | | | | |
|------------|-------------|------|--------------------|---|-----|------|------|--------|-------------------|---------------------|---------------|---------------------------------|-----------------------------|-----------------|------|-----------------------------|-----------------|--------------------|------|------|------|-------------|--------------|
| | Min. | Max. | | Typ. | 1 | 10 | 100 | 1000 | VOLTAGE RANGE (V) | SENSITIVITY (MHz/V) | PORT CAP (pF) | 3 dB MODULATION BANDWIDTH (MHz) | | Typ. | Typ. | | | Typ. | Max. | Typ. | Max. | Vcc (volts) | Current (mA) |
| | | | | | | | | | | | | | | | | | | | | | | | |
| ZX95-3555+ | 3000 | 3555 | +5 | -71 | -97 | -118 | -138 | 0.5 | 15 | 60 - 70 | 12 | 600 | -90 | -23 | -15 | 1.5 | 3 | 5 | 41 | | | | |

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) | 16V |
| 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 |



For detailed performance specs & shopping online see web site

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IF/RF MICROWAVE COMPONENTS

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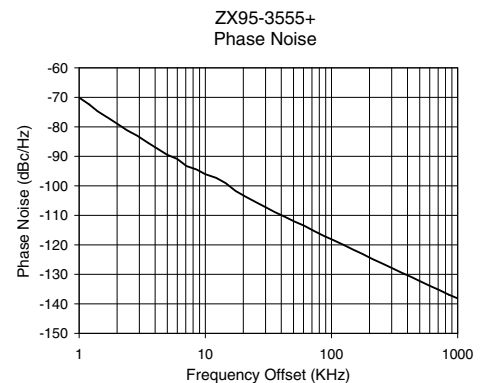
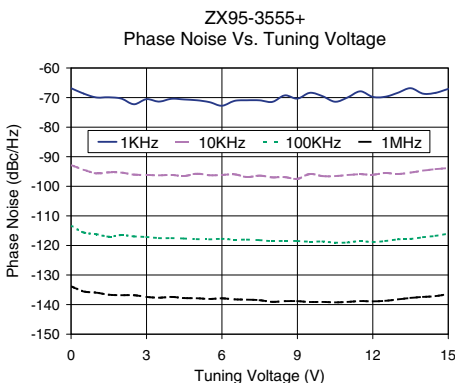
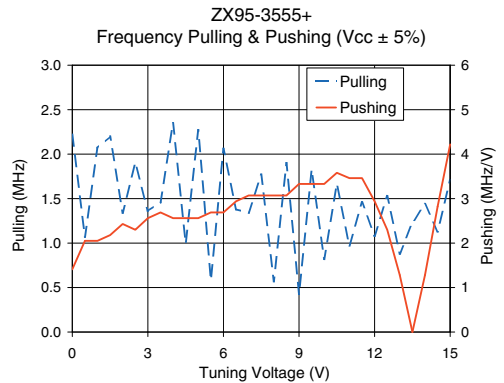
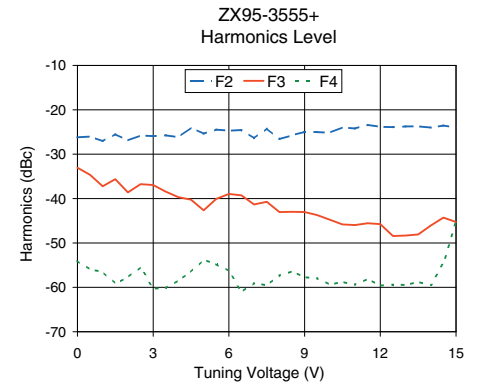
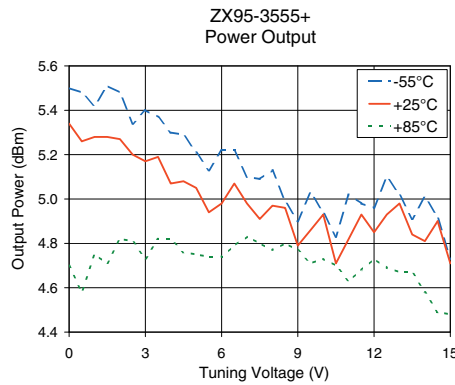
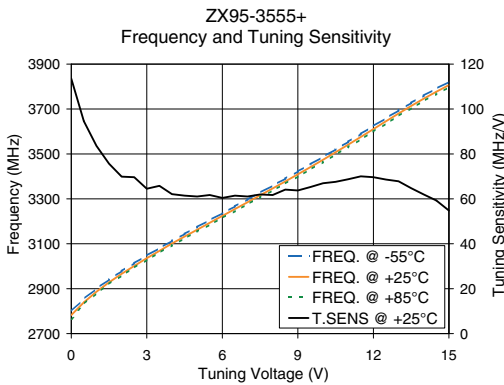
REV. OR
M108616
EDR-8382SA
ZX95-3555+
RAV
090903
page 1 of 2

Performance Data & Curves*

ZX95-3555+

| 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 3278 MHz (dBc/Hz) |
|--------|-------------------|-----------------|--------|--------|--------------------|-------|-------|----------|-----------------|-------|-------|--------------------|------------------|---------------------------------|-------|--------|--------|-------------------|----------------------------------|
| | | -55°C | +25°C | +85°C | -55°C | +25°C | +85°C | | F2 | F3 | F4 | | | 1kHz | 10kHz | 100kHz | 1MHz | | |
| 0.00 | 113.54 | 2799.8 | 2782.5 | 2764.9 | 5.50 | 5.34 | 4.70 | 34.22 | -26.2 | -33.0 | -54.0 | 1.41 | 2.22 | -66.8 | -92.8 | -113.4 | -133.8 | 1.0 | -70.09 |
| 0.50 | 94.59 | 2854.5 | 2839.2 | 2831.6 | 5.48 | 5.26 | 4.58 | 34.28 | -26.0 | -34.7 | -56.0 | 2.05 | 1.07 | -68.7 | -94.4 | -115.6 | -135.6 | 2.0 | -78.93 |
| 1.00 | 83.58 | 2900.2 | 2886.5 | 2879.1 | 5.42 | 5.28 | 4.75 | 34.27 | -27.1 | -37.2 | -56.5 | 2.05 | 2.07 | -69.9 | -95.6 | -116.2 | -136.0 | 3.5 | -85.37 |
| 2.00 | 69.89 | 2978.5 | 2966.1 | 2958.5 | 5.48 | 5.27 | 4.82 | 34.31 | -26.9 | -38.6 | -57.7 | 2.43 | 1.34 | -70.4 | -95.4 | -116.5 | -136.8 | 6.0 | -90.90 |
| 3.00 | 64.51 | 3047.6 | 3035.9 | 3028.0 | 5.40 | 5.17 | 4.73 | 34.36 | -25.9 | -37.0 | -60.3 | 2.56 | 1.36 | -70.5 | -96.1 | -117.1 | -137.4 | 8.5 | -94.45 |
| 4.00 | 62.08 | 3113.0 | 3101.1 | 3092.8 | 5.30 | 5.07 | 4.82 | 34.40 | -26.2 | -39.7 | -58.4 | 2.56 | 2.35 | -70.4 | -96.2 | -117.5 | -137.4 | 10.0 | -96.04 |
| 5.00 | 61.06 | 3174.7 | 3162.8 | 3154.2 | 5.21 | 5.05 | 4.75 | 34.49 | -25.4 | -42.6 | -53.8 | 2.56 | 2.27 | -70.9 | -95.7 | -117.9 | -137.8 | 20.8 | -103.66 |
| 6.00 | 60.42 | 3236.1 | 3224.2 | 3215.2 | 5.22 | 4.98 | 4.74 | 34.56 | -24.7 | -39.0 | -56.3 | 2.69 | 2.06 | -72.8 | -96.2 | -117.8 | -137.9 | 35.5 | -108.90 |
| 7.00 | 61.06 | 3297.3 | 3285.1 | 3275.8 | 5.10 | 4.98 | 4.83 | 34.66 | -26.4 | -41.3 | -59.0 | 3.07 | 1.34 | -70.9 | -96.9 | -118.0 | -138.3 | 60.7 | -113.50 |
| 8.00 | 61.70 | 3358.8 | 3346.6 | 3336.9 | 5.13 | 4.97 | 4.77 | 34.82 | -26.6 | -43.0 | -57.3 | 3.07 | 0.57 | -71.5 | -97.0 | -118.6 | -139.1 | 86.7 | -116.93 |
| 9.00 | 63.74 | 3422.0 | 3409.5 | 3399.5 | 4.90 | 4.79 | 4.77 | 34.96 | -25.0 | -43.0 | -57.7 | 3.33 | 0.43 | -70.4 | -97.5 | -118.5 | -138.8 | 100.0 | -118.09 |
| 10.00 | 66.94 | 3486.9 | 3474.0 | 3463.7 | 4.94 | 4.93 | 4.73 | 35.13 | -25.2 | -44.8 | -59.4 | 3.33 | 0.82 | -69.5 | -96.6 | -118.7 | -139.1 | 148.1 | -121.59 |
| 11.00 | 68.74 | 3554.3 | 3541.3 | 3530.8 | 5.02 | 4.82 | 4.63 | 35.36 | -24.2 | -46.0 | -59.4 | 3.46 | 0.97 | -70.0 | -96.2 | -119.0 | -139.1 | 177.0 | -123.14 |
| 12.00 | 69.63 | 3624.3 | 3610.7 | 3599.9 | 4.96 | 4.85 | 4.73 | 35.57 | -23.8 | -45.8 | -59.6 | 2.94 | 1.08 | -69.8 | -96.1 | -118.9 | -138.9 | 211.6 | -124.82 |
| 12.50 | 68.61 | 3659.1 | 3645.5 | 3634.7 | 5.10 | 4.93 | 4.69 | 35.71 | -23.9 | -48.4 | -59.4 | 2.30 | 1.53 | -69.7 | -95.5 | -118.5 | -138.7 | 302.4 | -127.91 |
| 13.00 | 67.84 | 3693.7 | 3679.8 | 3669.2 | 5.02 | 4.98 | 4.67 | 35.80 | -23.8 | -48.3 | -59.5 | 1.28 | 0.88 | -68.4 | -95.9 | -117.9 | -138.3 | 361.5 | -129.48 |
| 13.50 | 64.77 | 3727.4 | 3713.7 | 3703.3 | 4.91 | 4.84 | 4.67 | 35.91 | -23.7 | -48.1 | -58.8 | 0.00 | 1.23 | -66.8 | -95.4 | -117.8 | -137.7 | 507.5 | -132.39 |
| 14.00 | 61.95 | 3759.8 | 3746.1 | 3735.8 | 5.01 | 4.81 | 4.58 | 36.01 | -24.0 | -46.1 | -59.5 | 1.28 | 1.44 | -68.7 | -94.7 | -117.2 | -137.4 | 606.7 | -133.97 |
| 14.50 | 59.26 | 3791.0 | 3777.1 | 3767.0 | 4.92 | 4.90 | 4.49 | 36.06 | -23.5 | -44.3 | -54.6 | 2.82 | 1.13 | -68.4 | -94.2 | -116.8 | -137.1 | 851.6 | -136.90 |
| 15.00 | 54.78 | 3820.7 | 3806.7 | 3796.7 | 4.73 | 4.71 | 4.48 | 36.12 | -24.0 | -45.3 | -45.3 | 4.22 | 1.71 | -67.1 | -93.9 | -116.0 | -136.4 | 1000.0 | -138.13 |

*at 25°C unless mentioned otherwise



ISO 9001 ISO 14001 AS 9100 CERTIFIED

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