**UpConverter**

**Frequency Mixer**

Level 17 (LO Power +17 dBm) 0.1 to 3900 MHz

---

### Maximum Ratings

- Operating Temperature: -40°C to 85°C
- Storage Temperature: -55°C to 100°C
- IF Power: 100mW

Permanent damage may occur if any of these limits are exceeded.

### Coaxial Connections

- LO: 3
- IF (IN): 1
- RF (OUT): 2

### Features

- up converter mixer
- low conversion loss, 7.5 dB typ.
- high IP3, 26 dB typ.
- rugged construction
- small size
- protected by US patents, 6,790,049 and 7,027,795

### Applications

- WIMAX
- wide band receivers

### Electrical Specifications

<table>
<thead>
<tr>
<th>FREQUENCY (MHz)</th>
<th>CONVERSION LOSS* (dB)</th>
<th>LO-IF (IN) ISOLATION (dB)</th>
<th>LO-RF (OUT) ISOLATION (dB)</th>
<th>IP3 at center band (dBm)</th>
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<td>LO</td>
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1 dB COMP. +14 dBm typ.

* Conversion Loss at 30 MHz IF

**σ** is a standard deviation

---

### Typical Performance Data

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<th>Frequency (MHz)</th>
<th>Conversion Loss (dB)</th>
<th>Isolation L-I (dB)</th>
<th>Isolation L-R (dB)</th>
<th>VSWR RF (OUT) Port (:1)</th>
<th>VSWR LO Port (:1)</th>
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### Outline Drawing

![Outline Drawing](image)

### Outline Dimensions

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### Notes

A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit’s applicable established test performance criteria and measurement instructions.

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---

**ZX05-U432H+**

CASE STYLE: FL905

Connectors Model

SMA ZX05-U432H-S+

**+RoHS Compliant**

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

---

**Mini-Circuits**

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**www.minicircuits.com**
Performance Charts

ZX05-U432H+

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---

**ZX05-U432H+ Conversion Loss**

- **LO=+14dBm**
- **LO=+17dBm**
- **LO=+20dBm**

**RF (OUT) FREQUENCY (MHz)**

---

**ZX05-U432H+ L-I (IN) Isolation**

- **LO=+14dBm**
- **LO=+17dBm**
- **LO=+20dBm**

**FREQUENCY (MHz)**

---

**ZX05-U432H+ L-R (OUT) Isolation**

- **LO=+14dBm**
- **LO=+17dBm**
- **LO=+20dBm**

**FREQUENCY (MHz)**

---

**ZX05-U432H+ IF (IN) VSWR**

- **LO=+14dBm**
- **LO=+17dBm**
- **LO=+20dBm**

**FREQUENCY (MHz)**

---

**ZX05-U432H+ LO VSWR**

- **LO=+14dBm**
- **LO=+17dBm**
- **LO=+20dBm**

**FREQUENCY (MHz)**

---

**ZX05-U432H+ RF (OUT) VSWR**

- **LO=+14dBm**
- **LO=+17dBm**
- **LO=+20dBm**

**FREQUENCY (MHz)**

---

**ZX05-U432H+ IP3**

- **LO=+14dBm**
- **LO=+17dBm**
- **LO=+20dBm**

**RF (OUT) FREQUENCY (MHz)**

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