

## Uplink Systems

### ATZC-0080 C-Band VSAT Transmitter (L-Band Input)



Solid State Transmitter  
C-Band

ATCi introduces complete line of solid state transmitters for outdoor or indoor installations.

- Smallest and most light-weight unit available today (20-27 lbs).
- Wide range of power outputs available.
- 10-80 watts with other powers available upon request.
- Rugged design for outdoor use.
- L-Band input.
- Flange or coax output available.
- Available in outdoor and indoor style (outdoor style shown).
- AC or DC choice.
- 1 Year warranty.
- Excellent customer support.

# Specifications: C-Band VSAT Transmitter

Model	Output Power at P1 dB min (watts)	Gain dB (min)	1 dB Power Consumption Compression Point	Size (Watts)	(Inches)
ATZC-0012	10	70	41dBm	130	12.1 x 7.5 x 9.2
ATZC-0020	20	70	43dBm	180	12.1 x 10.4 x 9.2
ATZC-0030	30	70	45dBm	250	12.1 x 10.4 x 9.2
ATZC-0040	40	70	46dBm	350	12.1 x 10.4 x 9.2
ATZC-0050	50	70	47dBm	450	12.1 x 10.4 x 9.2
ATZC-0060	60	70	47.8dBm	500	12.1 x 10.4 x 9.2
ATZC-0070	70	70	48.5dBm	600	12.1 x 10.4 x 9.2
ATZC-0080	80	70	49dBm	700	12.1 x 10.4 x 9.2

<p><b>ELECTRICAL CHARACTERISTICS</b></p> <p>Frequency range</p> <p>Input Frequency Range</p> <p>Gain flatness over any 40 MHz</p> <p>Gain flatness over full band</p> <p>Gain variation</p> <p>Input VSWR (L-Band)</p> <p>Output Return Loss (C-Band)</p> <p>Spurious at rated power</p> <p>Third order IMD (two equal tones 5MHz apart)</p> <p>Output Phase Noise</p>	<p>5.850 to 6.425 GHz <span style="float: right;"><i>Other options available</i></span></p> <p>950 to 1525 MHz</p> <p>+/-1.3 dB max at room temperature</p> <p>+/-2.5 dB max at room temperature</p> <p>±1.5 dB over operating temperature range</p> <p>2.0:1, max</p> <p>1.3:1, max</p> <p>-60 dBc max.</p> <p>-30 dBc max. @ 6dB back off (SCL 9 dB back off from P1dB)</p> <p>-25 dBc max. @ 3dB back off (SCL 6 dB back off from P1dB)</p> <p>@ 1kHz <span style="float: right;">-75 dBc / Hz</span></p> <p>@ 10 kHz <span style="float: right;">-80 dBc / Hz</span></p> <p>@ 100 kHz <span style="float: right;">-90 dBc / Hz</span></p>
<p><b>POWER REQUIREMENTS</b></p> <p>Input Supply Voltage</p>	<p>110/220 VAC ± 15% (47-63 HZ) Auto Ranging, 12, 24 &amp; 48 VDC (optional)</p>
<p><b>MECHANICAL CHARACTERISTICS</b></p> <p>IF input (L-Band) Interface</p> <p>RF output (C-Band) Interface</p> <p>Power Input</p> <p>M&amp;C Analog Interface</p> <p>RS 232 or RS-485 Interface</p> <p>Temperature Operating</p> <p>Storage</p> <p>Humidity</p> <p>Altitude</p>	<p>Type N Connector (Type F optional)</p> <p>Type N Connector / CPR137</p> <p>MS3102R16-10P (other options available)</p> <p>MS3102R20-29s (other options available)</p> <p>MS3102R14S-6S (other options available)</p> <p>40° C to +55°C</p> <p>-55° C to +85°C</p> <p>100%, considering, rain 2" per hour</p> <p>10000' AMSL</p>