



# ATZC – (10-100) 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 - 100 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 PSAT typ. (watts)	Gain dB (min)	1 dB Power Compression Point	AC Power Consumption (Watts)	(Inches)
ATZC-0010	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	11.5 x 11.2 x 11.3
ATZC-0070	70	70	48.5dBm	530	11 x 9.6 x 8.5
ATZC-0080	80	70	49dBm	550	11.5 x 11.2 x 11.3
ATZC-0100	100	80	50dBm	600	11.5 x 11.2 x 11.3

<b>ELECTRICAL CHARACTERISTICS</b>	
Frequency range	5.850 to 6.425 GHz <span style="float: right;"><i>Other options available</i></span>
Input Frequency Range	950 to 1525 MHz
Gain flatness over any 40 MHz	± 0.5 dB max at room temp.
Gain flatness over full band	± 1.0 dB max at room temp.
Gain variation	±1.0 dB over operating temp. range
Input VSWR (L-Band)	2.0 : 1, max
Output Return Loss (C-Band)	1.3 : 1, max
Spurious at rated power	-60 dBc max.
Third order IMD (two equal tones 5MHz apart)	-34 dBc max. @ 7dB back off (from rated P1 dB) -26 dBc max. @ 3dB back off (from rated P1dB)
Output Phase Noise	@ 1kHz -75 dBc / Hz @ 10 kHz -80 dBc / Hz @ 100 kHz -90 dBc / Hz
<b>POWER REQUIREMENTS</b>	
Input Supply Voltage	110/220 VAC ± 15% (47-63 HZ) Auto Ranging, 48 VDC (optional)
<b>MECHANICAL CHARACTERISTICS</b>	
IF input (L-Band) Interface	Type N Connector
RF output (C-Band) Interface	CPR137 Groved (type N Optional)
Power Input	MS3102R16-10P ( <i>other options available</i> )
M&C Analog Interface	MS3102R20-29s ( <i>other options available</i> )
RS 232 or RS-485 Interface	MS3102R14S-6S ( <i>other options available</i> )
Temperature Operating	-40° C to +55° C
Storage	-55° C to +85° C
Humidity	100%, considering, rain 2" per hour
Altitude	10000' AMSL