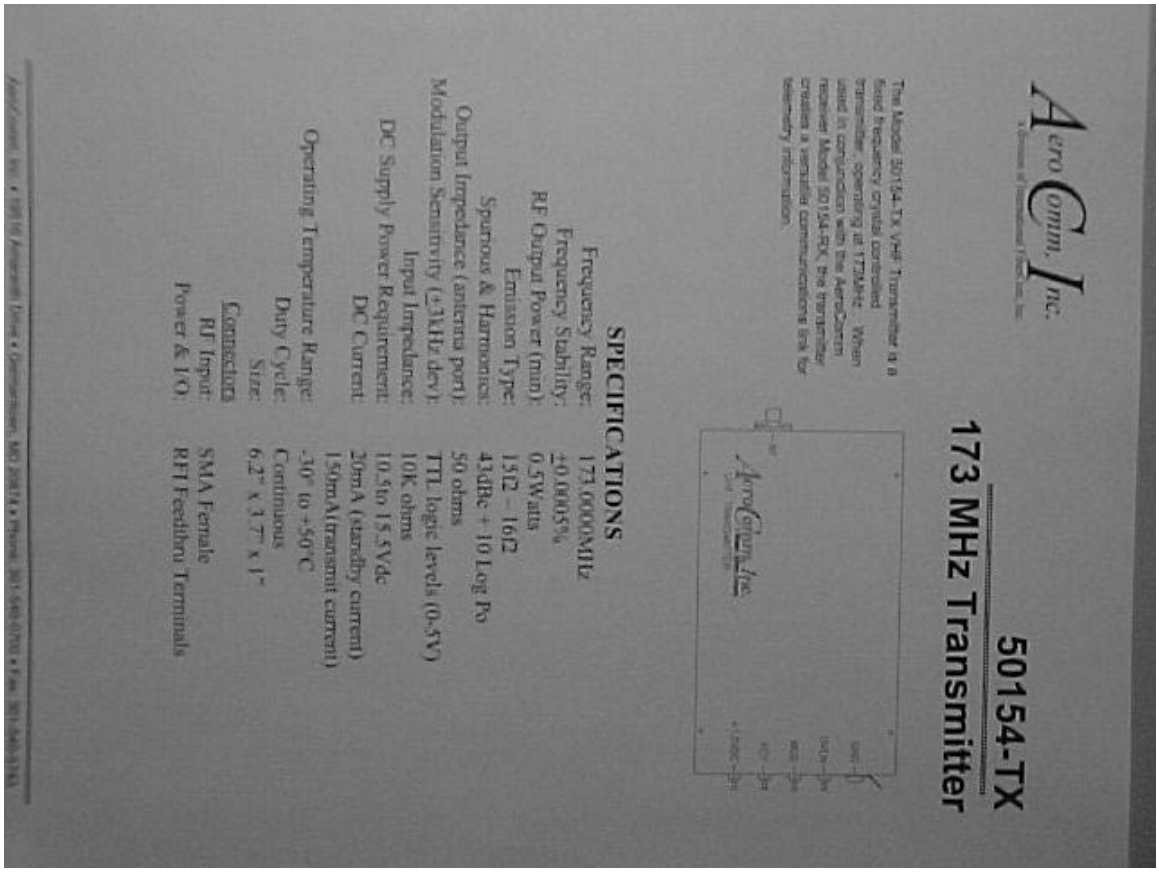

AeroComm, Inc.

50154-TX

173 MHz Transmitter

The Model 50154-Tx VHF Transmitter is a fixed frequency crystal controlled transmitter, operating at 173MHz. When used in conjunction with the AeroComm receiver Model 50154-RX, the transmitter creates a versatile communications link for telemetry information.

SPECIFICATIONS

Frequency Range:	173.0000MHz
Frequency Stability:	±0.0005%
RF Output Power (min):	0.5Watts
Emission Type:	15Ω – 16Ω
Spurious & Harmonics:	43dBc + 10 Log Po
Output Impedance (antenna port):	50 ohms
Modulation Sensitivity (±3kHz dev):	TTL logic levels (0-5V)
Input Impedance:	10K ohms
DC Supply Power Requirement:	10.5 to 15.5Vdc
DC Current:	20mA (standby current)
	150mA(transmit current)
Operating Temperature Range:	-30° to +50°C
Duty Cycle:	Continuous
Size:	6.2" x 3.7" x 1"
Connectors	
RF Input:	SMA Female
Power & I/O:	RFI Feedthru Terminals

Figure 1: Operational Description

Additional Information:

The EUT is a VHF transmitter for data telemetry only. It has an input of TTL level data up to a data rate of 2.5 KHz. The output is FM with and unmodulated output of +23dBm. It is designed to be coupled to a power amplifier for various applications.

It operates at 173.3375 Mhz only