The TRI5758 is an Outdoor RF Transceiver for use in unliscenced broadband wireless systems.

The TRI5758 combines a low noise downconverter, high power upconverter, antenna and high rejection duplexer to offer a fully integrated solution for

5.7 GHz BWINTM BASED on DOCSISTM subscriber terminals.

The TRI5758 Integrated Subscriver Transceiver serves to freqency translate and amplify the upstream and downstream signals to

Product Features:

- •+28 dBm EIRP
- Microprocessor controlled gain compensation over full temperature band
- Automatic transmit RF mute (transmits only when an IF signal is present)
- Integrated planar antenna



Distributed by:

Specifications subject to change without notice – Printed in Canada br_tri5758_02 (May 2003) the appropriate intermediate frequencies for use by the indoor DOCSIS modem.

The TRI5758 with integral antenna is situated oudoors and connected to a cable modem indoors by a low cost 75 ohm cable (i.e. RG-59, RG-6 or similar.



A single RF Fconnector on the wetherproofed enclosure provides the interface to the indoor modem for rapid installation.

- Audible installation alignment beeper to facilitate installation
- Fully weatherized unit suited for outdoor mounting
- •Tx & Rx have excellent phase noise and frequency stability

WaveCom Electronics Inc. 150 Cardinal Place Saskatoon, Sk, Canada S7L 6H7 TEL: (306) 955-7075 FAX: (306) 955-9919 Website: www.WaveCom.ca E-mail: sales@WaveCom.ca

SPECIFICATIONS - WAVECOM TRI5758

TRANSMIT

IF Input Frequency RF Output Frequency

Gain (Integrated) Gain Flatness (Frequency Response)

Gain Stability over Temperature Linear Output Power Spurious (at transmit port) Phase Noise Spectral Inversion Return Loss (IF) IF Level for RF Activation RF Activation/Mute Response Time

RECEIVE

RF Input Frequency

IF Output Frequency Gain (Integrated) Gain Flatness (Frequency Response)

Gain Stability over Temperature Noise Figure Image Rejection Discrete Spurious (at IF port)

Phase Noise (IF) Spectral Inversion

GENERAL

Integrated Flat Panel Antenna Gain Beamwidth Polarity Cross Polarization Isolation Front/Back Ratio Frequency Setting & Stability Frequency Stability Over Time IF Connector DC Supply **Operating Temperature**

Size Mounting

Weight

18 to 42 MHz 5727 - 5751 MHz (Option T5727-5751R5775-5799) 5751 - 5775 MHz (Option T5751-5775R5799-5823) 26 dB +/-2 dB +/-1 dB full band +/- 0.5 dB over any 6 MHz band +/-2.0 dB +5 dBm into antenna (16 QAM, QPSK) -40 dBm 9 kHz to 21.4 GHz < -85 dBc/Hz @ 10 KHz typical No spectral inversion 10 dB in Transmit and Receive bands + 5 dBmV <2 microseconds

Broadband Wireless Transceiver

5775 - 5799 MHz (Option T5727-5751R5775-5799) 5799 - 5823 MHz (Option T5751-5775R5799-5823) 516 -540 MHz 53 dB +/- 2 dB +/-1.5 dB full band +/- 0.5 dB any 6 MHz band +/- 2.0 dB 6.0 dB typical, 7dB max 90 dB minimum -80 dBm between 510 and 546 MHz -50 dBm from 5 MHz to 510 MHz and from 546 MHz to 860 MHz <-85 dBc/Hz @ 10 kHz typical No spectral inversion

23 dBi 9.0 degrees Vertical or Horizontal 20 dB 30 dB +/- 15 kHz (-30 to +40°C) < +/- 25 kHz over 10 years F female, 75 ohms 18 to 24 VDC, 12W max. -30°C to +40°C (full specifications) -45°C to +45°C (operational) 30.5 x 30.5 x 7.5 cm (12" x 12" x 3") Pole mount 1" to 2.5" dia. pole or wall mount with 90 deg pol, az and el adjustment 2.7kg max.

ECTRONICS INC.

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The DOCSISTM acronym belongs to CableLabs®

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