

UHF300

Micro 5watt UHF CB Radio



UHF300 Technical Specification

Compliance	AS/NZS 4365:2011
Frequency Range	476.425 - 477.4125 MHz
Number of TX/RX Channels	80 UHF CB (75 Voice channels)
Channel Spacing TX/RX	12.5KHz
Operating modes	Simplex, Repeater TX offset (+750kHz)
Scanning Speed	130 msec per channel
Automatic Level control (ALC)	For consistant audio levels
Antenna Impeadance	50 Ohms
Operating Volts nominal	13.8 VDC
Operating Volts Range	10 to 15 VDC
Over Voltage Protection	voltage regulator
Over Current Protection	2 Amp fuse
Reverse Polarity Protection	Series diode
Frequency Stability	+/- 2.5ppm
Transmitter	
RF Output Power	5watts max.
Modulation	F3E (FM)
Maximum Deviation	2.5KHz
Spurious Emissions	< -70 dBc
TX Audio pre-emphasis	+ 6dB/octave from 300Hz to 3kHz
Current Consumption during TX	1.5 Amps with 50 Ohm antenna termination
Reciever	
Circuit Type	Dual conversion superheterodyne
IF Frequencies	1st IF = 21.4MHz , 2nd IF = 450kHz
Current Consumption during RX	200mA
Sensitivity	< -121 at 12dB SINAD
Selectivity	+/-3.75kHz min @ 3dB to +/-15kHz max @ 40dB
Intermodulation Immunity	> 70dB
Spurious Immunity	> 70dB
Audio Output Power	3 Watts Maximum
RX Audio de-emphasis	-6dB/octave 300Hz to 3kHz
Audio frequency response	300Hz to 3kHz
External speaker jacks	for optional 8 Ohm mono speaker (3.5mm jack)

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*This 80 channel narrowband radio communicates with 40 channel radios on the first 40 channels (1 to 40) but has another 40 channels (41 to 80) which will communicate with new 80 channel narrowband radios. In total there are 75 useable Narrowband voice channels. Voice communications are prohibited on Channels 22 and 23 as they are used for Telemetry and Telecommand. Channels 61,62 and 63 are guard channels and are not available for use. Channel 5 and 35 (paired for Duplex repeaters) are emergency channels and should be used only in an emergency. The CTCSS and DCS function are not allowed to operate on these channels. A list of currently authorised channels can be obtained from the ACMA website in Australia and the MED website in New Zealand. There are 8 Repeater channels 1 to 8 output (31 to 38 input). Additional repeater channels 41-48 input and 71-78 output are now also available. Any designated repeater channel may be used for simplex operation in areas where it is not in operational range of a CB repeater station.