



GENERAL

Size10.6" (L) x 4.0" x 2.42" (H)
 Weight3.5 lb
 Operating temperature range -30C to +60C
 Power requirements 10 to 14 VDC
 Stand-by current 100 ma continuous
 Transmit (50 msec average)24A nominal@12VDC



RECEIVER

Frequency36-50 MHz 0.0005%
 ModulationSynthesized 10KHz steps
 type GMSK
 rate..... 9.6Kbps/19.2Kbps
 formatNRZ
 Noise figure<7 dB
 Sensitivity
 bit error rate<.001 @ 9.6bps -114 dbm
 IF bandwidth (3/60 db) 13/40 KHz Typical
 RF bandwidth (3 db)..... 13 MHz Typical
 Signal acquisition time <5 msec
 3rd order intercept>4 dBm minimum
 Image response attenuation >70 dB minimum
 Spurious response attenuation >70 dB minimum
 SP threshold Adjustable from -115 to -106 dBm
 Triggered by DET RF & Demodulator Lock
 Noise blanker>20 dB Reduction in Impulse Noise

TRANSMITTER

Frequency36-50 MHz 0.0005%
 Synthesized 10KHz steps
 RF power output..... 100W nominal @ 12 VDC Input
 Load VSWR..... <2:1 for rated power
 Harmonic levels>63 dB below unmodulated carrier
 Modulation
 type GMSK
 rate..... 9.6Kbps/19.2Kbps
 Spurious>63 dB (Tx On) below unmodulated carrier
 >57 dB (Standby) below unmodulated carrier
 Transmit bandwidth.....25 KHz channel spacing
 ACP > 70 dB below unmodulated carrier
 Tx duty cycle 16% maximum without shutting down
 T/R switch..... Solid-State Switch Time <100sec
 Protection
 High VSWRWithstands infinite VSWR

MICROPROCESSOR

ProcessorMotorola MC68332FC 32-bit
 Embedded Controller
 Memory
 Program Storage 512K x 16 non-volatile flash memory
 Data Storage 1024K x 8 Static Ram (optional (2084K x8)
 Parameter Storage 512K x 16 non-volatile flash memory
 Automated, unattended
 data telemetry system
 Three (3) programmable RS-232
 data ports for interfacing to:
 dataloggers, field test equipment, palmtops, laptops
 Auxiliary sensor interfaces 6 analog inputs, 10 bit resolution
 4 optically isolated inputs
 2 relay outputs



* Specifications are subject to change without notice.

