

| Parameters | | Unit | Value |
|--------------------------------------|---|------|--------------------------------------|
| GENERALS | | | |
| Frequency range | | MHz | 87.5 ÷ 108 |
| Rated output power | | mW | 60 |
| Modulation type | | | Direct carrier frequency |
| Operational Mode | | | Mono, Stereo, Multiplex |
| Ambient working temperature | | °C | -10 to + 50 |
| Frequency programmability | | | From software, with 10 kHz steps |
| Frequency stability | WT from -10°C to 50°C | ppm | ±1 |
| Modulation capability | | kHz | 150 Stereo, 180 Mono/MPX |
| Pre-emphasis mode | | µS | 0, 50 (CCIR), 75 (FCC) |
| Spurious & harmonic suppression | | dBc | <75 (80 typical) |
| Asynchronous AM S/N ratio | Referred to 100% AM, with no de-emphasis | dB | ≥ 65 (typical 70) |
| Synchronous AM S/N ratio | Referred to 100% AM, FM deviation 75 kHz by 400Hz sine, without de-emphasis | dB | ≥ 50 (typical 60) |
| MONO OPERATION | | | |
| | RMS @ ± 75 kHz peak, HPF 20Hz - LPF 23 kHz, | | |
| | 50 µS de-emphasis | dB | > 80 (typical 85) |
| | Qpk @ ± 75 kHz peak, CCIR weighted, | | |
| S/N FM Ratio | 50 µS de-emphasis | dB | >73 |
| | Qpk @ ± 40 kHz peak, CCIR weighted, | | |
| | 50 µS de-emphasis | dB | >68 |
| Frequency Response | 30Hz ÷ 15kHz | dB | better than ± 0.5 dB (typical ± 0.2) |
| Total Harmonic Distortion | THD+N 30Hz ÷ 15kHz | % | < 0.1 (Typical 0.07%) |
| | Measured with a 1 KHz, | | |
| Intermodulation distortion | 1.3 KHz tones, 1:1ratio, @ 75 kHz FM | % | < 0.02 |
| | 3.18 kHz square wave, 15 kHz sine wave | | |
| Transient intermodulation distortion | @75 kHz FM | % | < 0.1 (typical 0.05) |

| MPX OPERATION | | | |
|--------------------------------------|---|----|----------------------|
| | RMS @ ± 75 kHz peak, HPF 20Hz - no LPF, | | |
| Composite S/N FM Ratio | 50 μ S de-emphasis | dB | > 80 (typical 85) |
| Frequency Response | 30Hz \div 53kHz | dB | ± 0.2 |
| | 53kHz \div 100kHz | dB | ± 0.5 |
| Total Harmonic Distortion | THD+N 30Hz \div 53kHz | % | < 0.1 |
| | THD+N 53kHz \div 100kHz | % | < 0.15 |
| | Measured with a 1 KHz, | | |
| Intermodulation distortion | 1.3 KHz tones, 1:1ratio, @ 75 kHz FM | % | < 0.05 |
| | 3.18 kHz square wave, 15 kHz sine wave | | |
| Transient intermodulation distortion | @75 kHz FM | % | < 0.1 (typical 0.05) |
| Stereo separation | 30Hz \div 53kHz | dB | > 50 dB (typical 60) |
| STEREO OPERATION | | | |
| | 50 μ S de-emphasis, | | |
| | L & R demodulated | dB | > 75 (78 typical) |
| | Qpk @ ± 75 kHz peak, CCIR weighted, | | |
| Stereo S/N FM Ratio | 50 μ S de-emphasis, | | |
| | L & R demodulated | dB | > 65 dB |
| | Qpk @ ± 40 kHz peak, CCIR weighted, | | |
| | 50 μ S de-emphasis, | | |
| | L & R demodulated | dB | > 58 dB |
| Frequency Response | 30Hz \div 15kHz | dB | ± 0.5 |
| Total Harmonic Distortion | THD+N 30Hz \div 15kHz | % | < 0.05 |
| | Measured with a 1 KHz, | | |
| Intermodulation distortion | 1.3 KHz tones, 1:1ratio, @ 75 kHz FM | % | ≤ 0.03 |
| | 3.18 kHz square wave, 15 kHz sine wave | | |
| Transient intermodulation distortion | @75 kHz FM | % | < 0.1 (typical 0.05) |
| Stereo separation | | dB | > 50 (typical 55) |
| Main / Sub Ratio | 30Hz \div 15kHz | dB | > 40 (typical 45) |

| SCA OPERATION | | | |
|--|--|-----|---------------------------|
| Frequency response | 40kHz ÷ 100kHz | dB | ± 0.5 |
| | RMS, ref @ ± 75 kHz peak, no HPF/LPF, 0µS de-emphasis, with 67 kHz tone on SCA input @ 7,5kHz FM deviation | | |
| | | dB | > 75 (typical 78) |
| Crosstalk to main or to stereo channel | RMS, ref @ ± 75 kHz peak, no HPF/LPF, 0µS de-emphasis, with 92 kHz tone on SCA input @ 7,5kHz FM deviation | | |
| | | dB | > 78 (typical 80) |
| VARIOUS | | | |
| Cooling | | | Forced, with internal fan |
| AUDIO INPUTS | | | |
| | Connector | | XLR F |
| | Type | | Balanced |
| Left / Mono | Impedance | Ohm | 10 k or 600 |
| | Input Level / Adjust | dBu | -13 to +13 |
| | Connector | | XLR F |
| | Type | | Balanced |
| Right | Impedance | Ohm | 10 k or 600 |
| | Input Level | dBu | -13 to +13 |
| | Connector | | BNC |
| | Type | | unbalanced |
| MPX | Impedance | Ohm | 10 k or 50 |
| | Input Level / Adjust | dBu | *-13 to +13 |
| | Connector | | 2 x BNC |
| | Type | | unbalanced |
| SCA/RDS | Impedance | Ohm | 10 k |
| | Input Level / Adjust | dBu | *-8 to +13 |
| OUTPUTS | | | |
| RF Output | Connector | | SMB |
| | Impedance | Ohm | 50 |
| RF Monitor | Connector | | BNC |
| | Impedance | Ohm | 50 |
| Pilot output | Connector | | BNC |
| | Impedance | Ohm | >5 k |
| | Output Level | Vpp | 1 |