

Parameters		Unit	Value
GENERALS			
Frequency range		MHz	87.5 ÷ 108
Rated output power		W	100
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		N type
	Impedance	Ohm	50
RF Monitor	Connector		BNC
	Impedance	Ohm	50
Pilot output	Connector		BNC
	Impedance	Ohm	>5 k
	Output Level	Vpp	1