

SINAD/S5 products at the quoted frequencies:

435MHz

+ 25, + 50kHz 2.3/3.5
+ 100, + 200kHz 1.5/3.3

145MHz

+ 25, + 50kHz 1.1/2.7
+ 100, + 200kHz 1.1/2.4

52MHz

+ 25, + 50kHz 0.5/1.5
+ 100, + 200kHz 0.5/1.5

RF intermodulation distortion, USB

RF levels (mV pd) at the quoted offsets to give S5 product at the quoted frequencies:

435MHz

+ 25, + 50kHz 4.2
+ 100, + 200kHz 4.0

145MHz

+ 25, + 50kHz 3.3
+ 100, + 200kHz 3.7

52MHz

+ 25, + 50kHz 2.3
+ 100, + 200kHz 2.3

Reciprocal mixing performance

Levels (mV pd) @ + 20 & + 100kHz to degrade SINAD on USB by 3dB.

@ 435MHz - /3.3
@ 145MHz 1.0/5.3
@ 52MHz 1.8/9.8

Accuracy of frequency display on USB RX (Hz)

@ 425MHz + 200
@ 145MHz + 200
@ 52MHz 0

Distortion

with 125mW audio output into 8 ohms

FM/SSB (%) 5.1/2.8

Audio output power

@ 10% THD (W) 2.3

TRANSMITTER MEASUREMENTS

Maximum Power Output
FM (W)/USB (W PEP)/CW (W)

432MHz	12.8/14/12.4
435MHz	13.2/14/12.9
439MHz	13.8/14/13.7
144MHz	12.5/20/12.3
145MHz	12.5/20/12.3
146MHz	12.4/20/12.2
50MHz	10.4/15/10.4
52MHz	10.3/15/10.2
54MHz	10.1/15/10.1

Harmonic, spurious output, FM

Levels of 2nd/3rd harmonics relative to full power (dBc) followed by level and offset (MHz) from carrier of worst spurious.

435MHz	- 63/- 68/- 70
145MHz	- 68/- 70/- 60@ +/- 10.8MHz
52MHz	- 59/- 60/- 70

Intermodulation distortion

2.2kHz & 500Hz injected into mic. socket at equal levels. 3rd/5th/7th/11th/15th/19th order products given in dB relative to level of causatory tones.

435MHz

10W PEP output*	- 25/- 31/- 41/- 60/+ 70/- 70
1W PEP output	- 20/- 40/- 60/- 70/- 70/- 70

145MHz

15W PEP output*	- 27/- 39/- 42/- 50/- 54/- 60
1W PEP output	- 28/- 45/- 64/- 70/- 70/- 70

52MHz

16W PEP output*	- 23/- 45/- 42/- 60/- 70/- 72
1W PEP output	- 29/- 48/- 51/- 80/- 80/- 80

Carrier level

With drive set so that ALC is just on threshold (dBc)	- 60
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With drive maximum (dBc)	- 51
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Unwanted sideband

(relative to wanted sideband) (dBc)	- 40
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FM deviation	Maximum (kHz)	Tone burst (kHz)
435MHz	7.5	5.1
145MHz	7.5	5.2
52MHz	7.3	5.2

Deviation figures are peak-to-peak ÷ 2 not RMS.