

6.6 Radiated Spurious Emissions - Pursuant to 47 CFR 2.1053

Radiated field strength measurements were conducted on the equipment by DNB Engineering Inc., Riverside, CA. Their data is on the following pages.



5969 Robinson Avenue
Riverside, CA 92503
(909) 637-2630
FAX (909) 637-2704

EMI Datasheet (ITE Devices)

DNB Job Number:	28071	Date:	January 14,2001	Specification [X] FCC Parts: 90, 87, 80, & 74
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Key to Abbreviations:

H Gain = Horizontal Gain of Horn antenna - This is subtracted from the reading to determine reference to reference antenna substitution.

Horz = Indicates that the receive antenna is in a horizontal position

Horz Mtr / Vert Mtr = Is the received meter reading from the EUT in either the Horz or Vert antenna polarities

Power = The matching power required to be driven into the transmit antenna during substitution measurements

Corr'd = The corrected meter reading taking into account the gain of the Horn antenna, no correction used for dipole to dipole substitutions.

Dipole = Is the element length in inches at the given frequency.

Antenna = The type of antenna used for a given frequency.



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Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Transmitter Number	Fundamental Frequency in MHz	Rated Output Power in Watts	Channel Spacing in kHz	Modulation
1 - Band 1	40.125	10	25	FM

	Freq in Mhz	Dipole	H Gain	Horz Mtr	Power	Corr'd	Vert Mtr	Power	Corr'd	Antenna
1	80.25058	36.21	-	16.80	-89.2	-89.2	23.90	-81.5	-81.5	Bicon
1	120.37497	24.14	-	13.80	-92.0	-92	14.60	-91.4	-91.4	Bicon
1	160.50116	18.11	-	16.10	-89.7	-89.7	19.20	-86.8	-86.8	Bicon
1	200.6265	14.48	-	21.20	-81.2	-81.2	36.90	-66.1	-66.1	Bicon
1	240.7509	12.07	-	14.10	-97.1	-97.1	14.00	-97.2	-97.2	Log
1	280.8727	10.35	-	13.40	-94.8	-94.8	11.70	-96.5	-96.5	Log
1	320.9951	9.05	-	12.90	-93.9	-93.9	12.60	-94.2	-94.2	Log
1	361.1199	8.05	-	12.90	-94.3	-94.3	15.40	-91.8	-91.8	Log
1	401.2503	7.24	-	18.80	-81.9	-81.9	19.80	-80.9	-80.9	Log

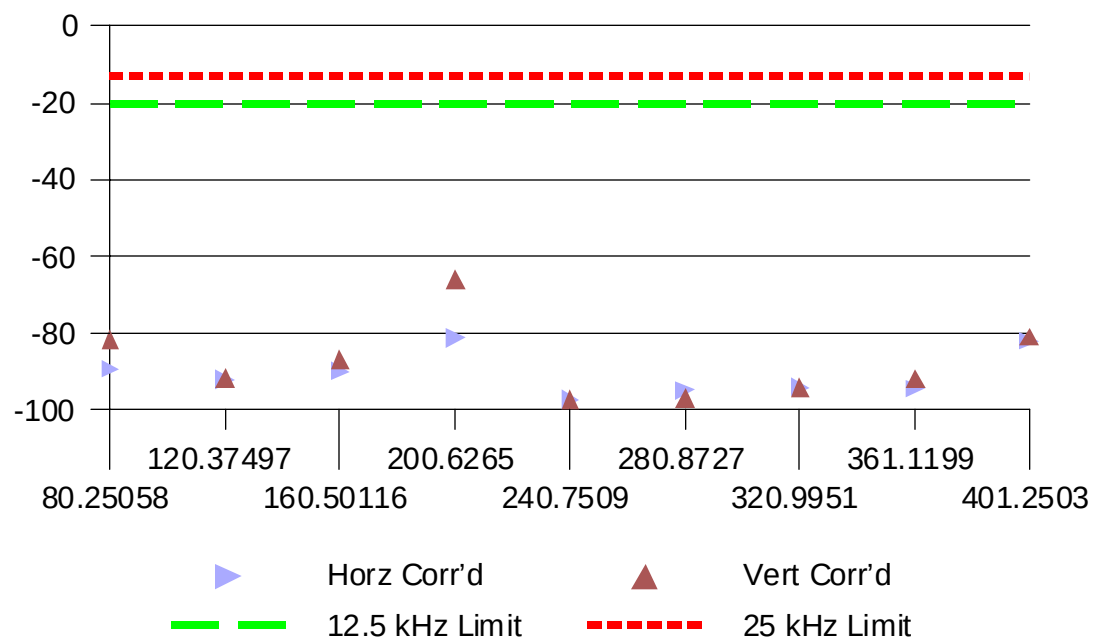


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Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Freq	80.25058	120.37497	160.50116	200.6265	240.7509	280.8727	320.9951	361.1199	401.2503
Horz Corr'd	-89.2	-92.0	-89.7	-81.2	-97.1	-94.8	-93.9	-94.3	-81.9
Vert Corr'd	-81.5	-91.4	-86.8	-66.1	-97.2	-96.5	-94.2	-91.8	-80.9
12.5 kHz Limit	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0
25 kHz Limit	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0





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DNB Job Number:	28071		Date: January 14,2001	
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Transmitter Number	Fundamental Frequency in MHz	Rated Output Power in Watts	Channel Spacing in kHz	Modulation
1 - Band 1	40.125	1	25	FM

	Freq in Mhz	Dipole	H Gain	Horz Mtr	Power	Corr'd	Vert Mtr	Power	Corr'd	Antenna
2	80.25058	36.21	-	13.90	-93.2	-93.2	21.10	-85.0	-85	Bicon
2	120.37497	24.14	-	11.80	-94.4	-94.4	14.40	-91.2	-91.2	Bicon
2	160.50116	18.11	-	17.00	-89.2	-89.2	21.70	-83.5	-83.5	Bicon
2	200.6265	14.48	-	12.60	-90.0	-90	35.50	-67.2	-67.2	Bicon
2	240.7509	12.07	-	12.50	-98.7	-98.7	11.60	-99.6	-99.6	Log
2	280.8727	10.35	-	13.20	-95.0	-95	11.90	-96.7	-96.7	Log
2	320.8727	9.06	-	11.10	-95.7	-95.7	12.80	-94.0	-94	Log
2	361.1199	8.05	-	13.30	-93.9	-93.9	12.70	-94.5	-94.5	Log
2	401.2503	7.24	-	16.20	-84.5	-84.5	14.90	-85.8	-85.8	Log

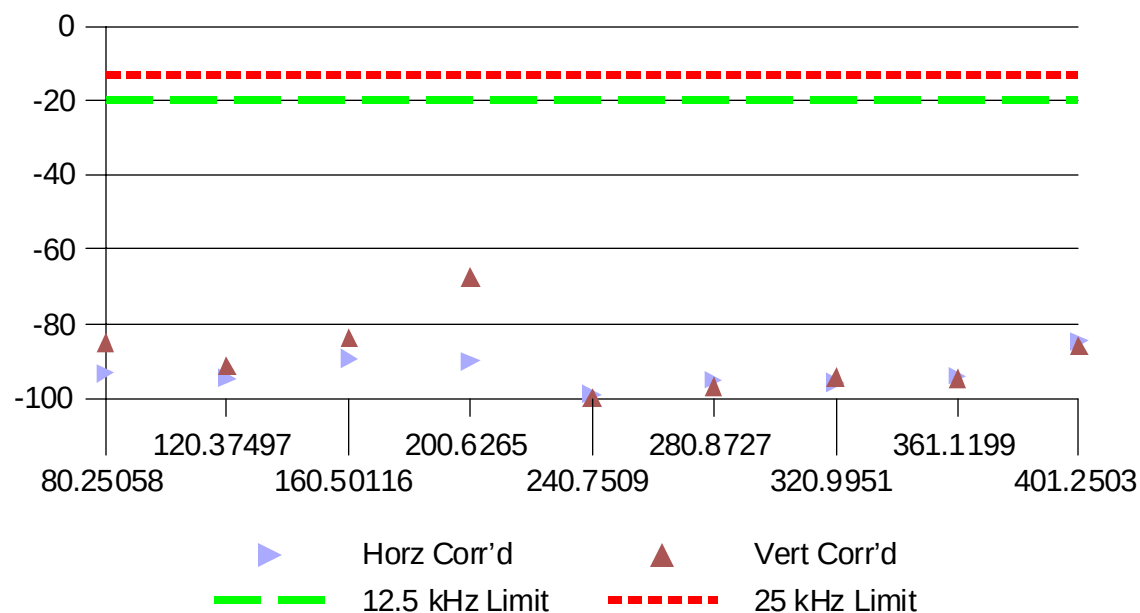


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Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Freq	80.25058	120.37497	160.50116	200.6265	240.7509	280.8727	320.9951	361.1199	401.2503
Horz Corr'd	-93.2	-94.4	-89.2	-90.0	-98.7	-95.0	-95.7	-93.9	-84.5
Vert Corr'd	-85.0	-91.2	-83.5	-67.2	-99.6	-96.7	-94.0	-94.5	-85.8
12.5 kHz Limit	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0
25 kHz Limit	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0





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Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Transmitter Number	Fundamental Frequency in MHz	Rated Output Power in Watts	Channel Spacing in kHz	Modulation
1 - Band 2	130.125	15	25	AM

	Freq in Mhz	Dipole	H Gain	Horz Mtr	Power	Corr'd	Vert Mtr	Power	Corr'd	Antenna
3	260.2460	11.17	-	26.50	-81.7	-81.7	20.40	-87.8	-87.8	Log
3	390.3690	7.44	-	30.80	-71.4	-71.4	27.30	-74.9	-74.9	Log
3	520.4995	5.58	-	21.70	-77.4	-77.4	26.60	-72.5	-72.5	Log
3	650.6150	4.47	-	20.20	-79.3	-79.3	25.50	-74.0	-74	Log
3	780.7460	3.72	-	22.50	-84.8	-84.8	29.50	-77.8	-77.8	Log
3	910.8610	3.19	-	13.00	-81.1	-81.1	12.90	-81.2	-81.2	Log
3	1040.9840	Horn	5.93	12.70	-76.5	-82.43	11.30	-77.9	-83.83	Horn
3	1171.1085	Horn	6.60	13.10	-77.5	-84.1	13.80	-76.8	-83.4	Horn
3	1301.2315	Horn	7.19	12.80	-76.5	-83.69	16.30	-73.0	-80.19	Horn

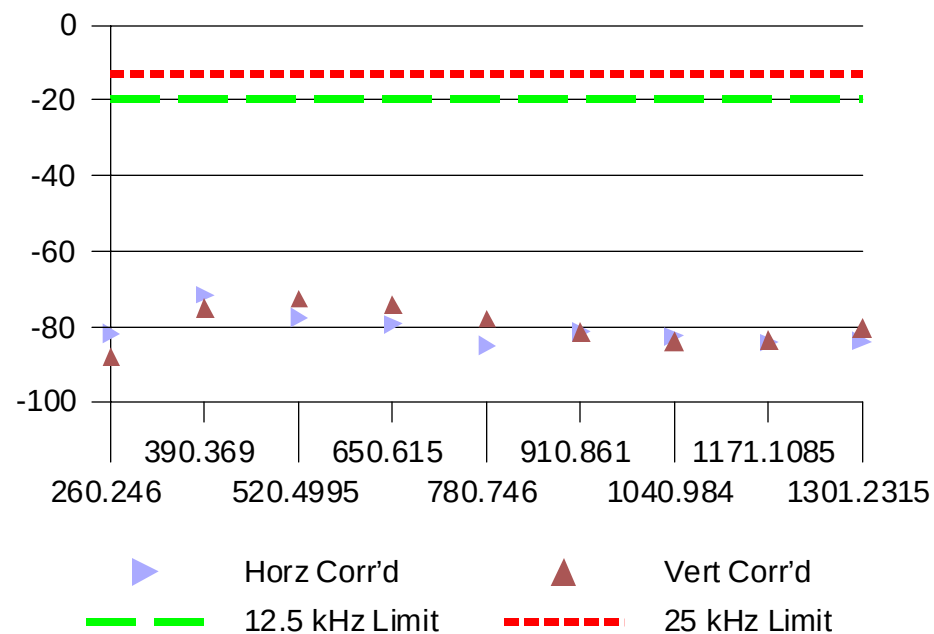


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Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Freq	260.2460	390.3690	520.4995	650.6150	780.7460	910.8610	1040.9840	1171.1085	1301.2315
Horz Corr'd	-81.7	-71.4	-77.4	-79.3	-84.8	-81.1	-82.43	-84.1	-83.69
Vert Corr'd	-87.8	-74.9	-72.5	-74.0	-77.8	-81.2	-83.83	-83.4	-80.19
12.5 kHz Limit	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0
25 kHz Limit	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0





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Model Number:	RT5000		Serial Number: N/A	
Description:	Avionics Transceiver			

Transmitter Number	Fundamental Frequency in MHz	Rated Output Power in Watts	Channel Spacing in kHz	Modulation
1 - Band 2	130.125	7.5	25	AM

	Freq in Mhz	Dipole	H Gain	Horz Mtr	Power	Corr'd	Vert Mtr	Power	Corr'd	Antenna
4	260.2510	11.17	-	20.80	-87.4	-87.4	20.10	-88.1	-88.1	Log
4	390.3765	7.44	-	22.70	-79.5	-79.5	20.00	-82.2	-82.2	Log
4	520.5020	5.58	-	20.70	-78.4	-78.4	19.10	-80.0	-80	Log
4	630.6275	4.61	-	15.00	-85.9	-85.9	20.30	-80.6	-80.6	Log
4	780.7530	3.72	-	25.00	-82.3	-82.3	17.50	-89.8	-89.8	Log
4	910.8785	3.19	-	13.80	-80.3	-80.3	17.10	-77.0	-77	Log
4	1041.0040	Horn	5.93	11.90	-77.3	-83.23	12.00	-77.2	-83.13	Horn
4	1171.1295	Horn	6.60	12.40	-78.2	-84.8	13.20	-77.4	-84	Horn
4	1301.2550	Horn	7.19	12.40	-76.9	-84.09	12.40	-76.9	-84.09	Horn

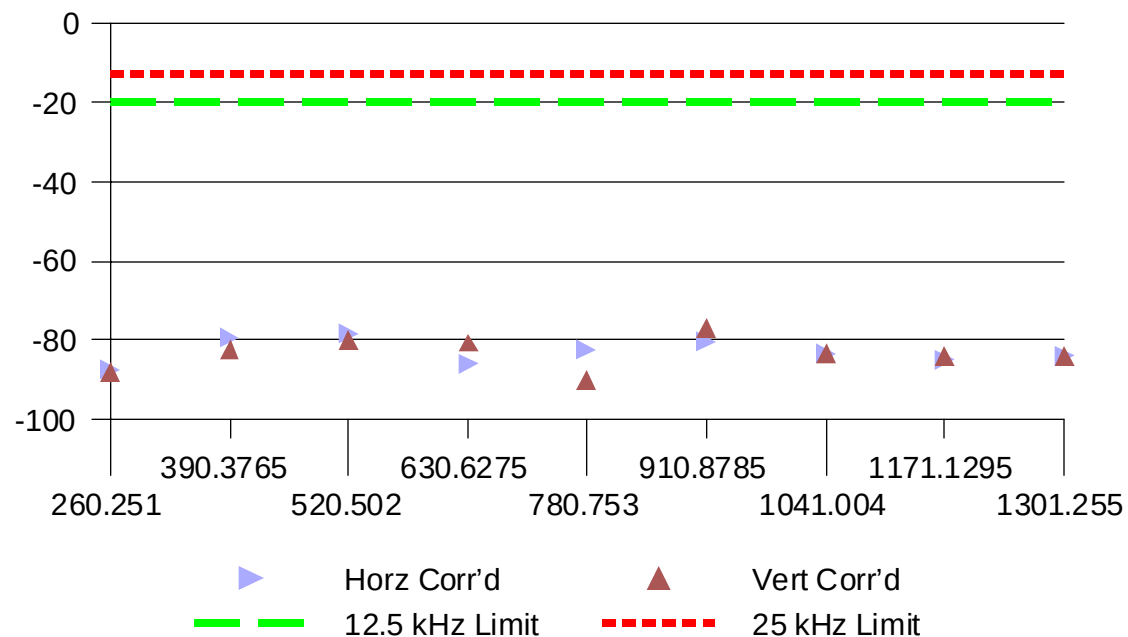


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Description:	Avionics Transceiver			

Freq	260.2510	390.3765	520.5020	630.6275	780.7530	910.8785	1041.0040	1171.1295	1301.2550
Horz Corr'd	-87.4	-79.5	-78.4	-85.9	-82.3	-80.3	-83.23	-84.8	-84.09
Vert Corr'd	-88.1	-82.2	-80.0	-80.6	-89.8	-77.0	-83.13	-84.0	-84.09
12.5 kHz Limit	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0
25 kHz Limit	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0





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Model Number:	RT5000		Serial Number: N/A	
Description:	Avionics Transceiver			

Transmitter Number	Fundamental Frequency in MHz	Rated Output Power in Watts	Channel Spacing in kHz	Modulation
1 - Band 3	158.125	10	25	FM

	Freq in Mhz	Dipole	H Gain	Horz Mtr	Power	Corr'd	Vert Mtr	Power	Corr'd	Antenna
5	316.2470	9.19	-	24.40	-82.1	-82.1	24.30	-82.2	-82.2	Log
5	474.3705	6.13	-	23.40	-75.9	-75.9	27.70	-71.6	-71.6	Log
5	632.4940	4.59	-	22.60	-76.3	-76.3	32.40	-66.5	-66.5	Log
5	790.6175	3.68	-	12.30	-85.3	-85.3	13.10	-84.5	-84.5	Log
5	948.7465	3.06	-	12.80	-74.5	-74.5	12.10	-75.2	-75.2	Log
5	1106.8675	Horn	6.28	13.00	-77.5	-83.78	11.90	-78.2	-84.48	Horn
5	1264.9880	Horn	7.03	11.90	-77.5	-84.53	12.50	-76.9	-83.93	Horn
5	1423.115	Horn	7.7	11.00	-80.6	-88.3	12.40	-79.2	-86.9	Horn
5	1581.2350	Horn	7.95	12.20	-79.1	-87.05	12.40	-78.9	-86.85	Horn

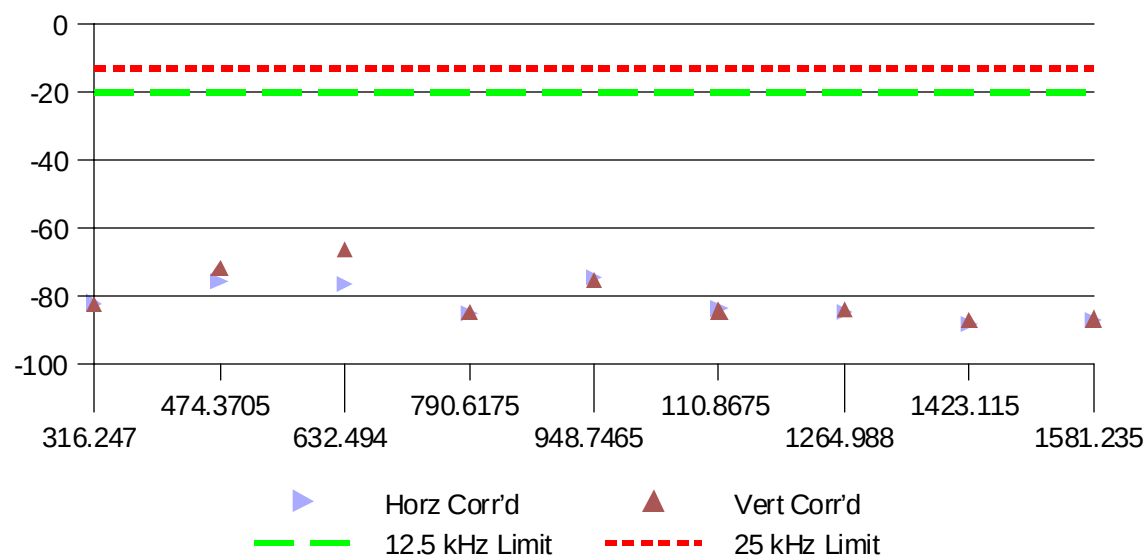


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Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Freq	316.2470	474.3705	632.4940	790.6175	948.7465	110.8675	1264.9880	1423.1150	1581.2350
Horz Corr'd	-82.1	-75.9	-76.3	-85.3	-74.5	-83.78	-84.53	-88.3	-87.05
Vert Corr'd	-82.2	-71.6	-66.5	-84.5	-75.2	-84.48	-83.93	-86.9	-86.85
12.5 kHz Limit	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0
25 kHz Limit	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0





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Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Transmitter Number	Fundamental Frequency in MHz	Rated Output Power in Watts	Channel Spacing in kHz	Modulation
1 - Band 3	158.125	1	25	FM

	Freq in Mhz	Dipole	H Gain	Horz Mtr	Power	Corr'd	Vert Mtr	Power	Corr'd	Antenna
6	316.2470	9.19	-	11.70	-94.8	-94.8	12.80	-93.7	-93.7	Log
6	474.3705	6.13	-	11.50	-87.8	-87.8	11.70	-87.6	-87.6	Log
6	632.4940	4.59	-	12.80	-86.1	-86.1	11.30	-87.6	-87.6	Log
6	790.6175	3.68	-	12.10	-85.5	-85.5	12.60	-85.0	-85	Log
6	948.7410	3.06	-	11.60	-75.7	-75.7	11.90	-75.4	-75.4	Log
6	1106.8675	Horn	6.28	11.80	-78.7	-84.98	11.70	-78.8	-85.08	Horn
6	1264.9910	Horn	7.03	12.40	-77.0	-84.03	12.20	-77.2	-84.23	Horn
6	1423.1145	Horn	7.7	11.00	-80.6	-88.3	11.50	-80.1	-87.8	Horn
6	1581.2350	Horn	7.95	10.70	-80.6	-88.55	11.80	-79.5	-87.45	Horn

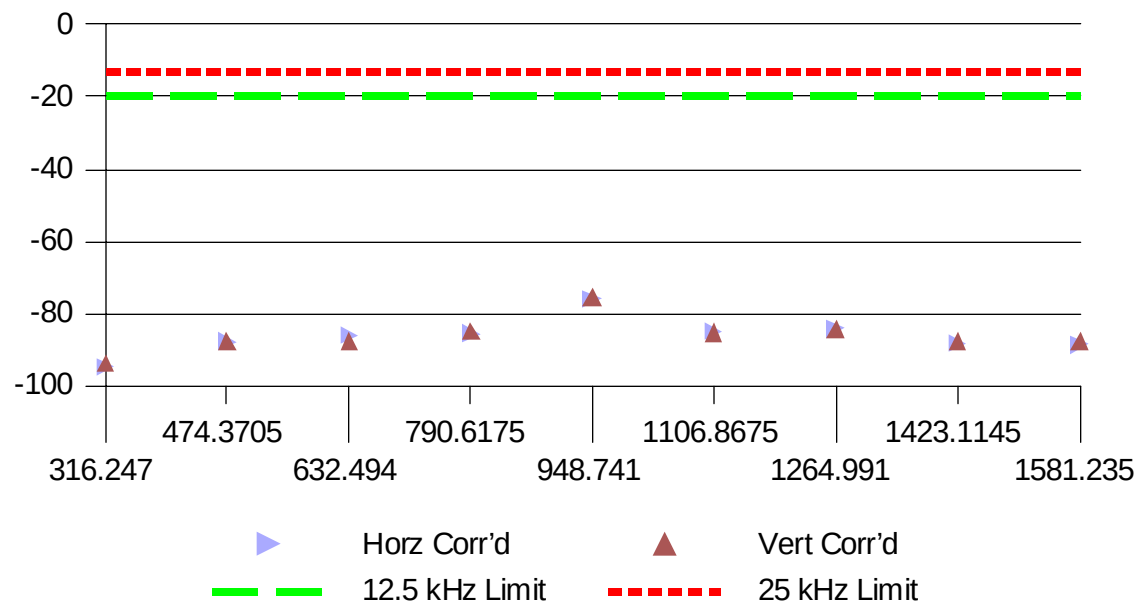


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Freq	316.2470	474.3705	632.4940	790.6175	948.7410	1106.8675	1264.9910	1423.1145	1581.2350
Horz Corr'd	-94.8	-87.8	-86.1	-85.5	-75.7	-84.98	-84.03	-88.3	-88.55
Vert Corr'd	-93.7	-87.6	-87.6	-85.0	-75.4	-85.08	-84.23	-87.8	-87.45
12.5 kHz Limit	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0
25 kHz Limit	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0





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Description:	Avionics Transceiver			

Transmitter Number	Fundamental Frequency in MHz	Rated Output Power in Watts	Channel Spacing in kHz	Modulation
1 - Band 4	460.125	10	25	FM

	Freq in Mhz	Dipole	H Gain	Horz Mtr	Power	Corr'd	Vert Mtr	Power	Corr'd	Antenna
7	920.250	3.16	-	41.70	-45.7	-45.7	47.20	-40.2	-40.2	Log
7	1380.372	Horn	7.53	31.20	-57.4	-64.93	45.5	-43.1	-50.63	Horn
7	1840.4935	Horn	7.79	27.60	-56.6	-64.39	35.70	-48.5	-56.29	Horn
7	2300.6409	Horn	8.33	46.20	-39.2	-47.53	44.70	-40.7	-49.03	Horn
7	2760.7490	Horn	8.7	39.90	-50.5	-59.2	30.60	-61.4	-70.1	Horn
7	3220.8646	Horn	8.82	21.90	-64.5	-73.32	26.10	-60.3	-69.12	Horn
7	3681.0159	Horn	9.06	17.30	-68.7	-77.76	21.00	-65.2	-74.26	Horn
7	4141.1453	Horn	9.36	12.60	-72.9	-82.26	11.80	-73.7	-83.06	Horn
7	4601.278	Horn	9.83	13.10	-70.7	-80.53	12.40	-71.4	-81.23	Horn

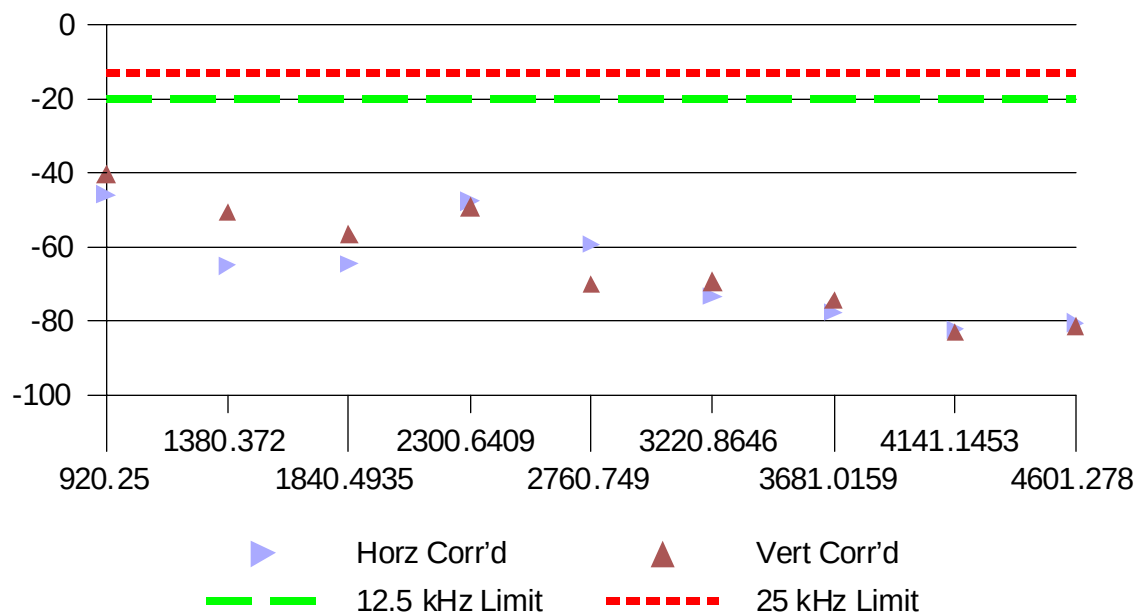


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Freq	920.250	1380.3720	1840.4935	2300.6409	2760.7490	3220.8646	3681.0159	4141.1453	4601.2780
Horz Corr'd	-45.7	-64.93	-64.39	-47.53	-59.2	-73.32	-77.6	-82.26	-80.53
Vert Corr'd	-40.2	-50.63	-56.29	-49.03	-70.1	-69.12	-74.26	-83.06	-81.23
12.5 kHz Limit	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0
25 kHz Limit	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0





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Transmitter Number	Fundamental Frequency in MHz	Rated Output Power in Watts	Channel Spacing in kHz	Modulation
1 - Band 4	460.125	1	25	FM

	Freq in Mhz	Dipole	H Gain	Horz Mtr	Power	Corr'd	Vert Mtr	Power	Corr'd	Antenna
8	920.250	3.16	-	37.60	-49.8	-49.8	43.30	-44.1	-44.1	Log
8	1380.372	Horn	7.53	20.20	-68.4	-75.93	37.70	-50.9	-58.43	Horn
8	1840.4935	Horn	7.79	29.30	-54.9	-62.69	34.90	-49.3	-57.09	Horn
8	2300.6409	Horn	8.33	23.80	-61.6	-69.93	32.60	-52.8	-61.13	Horn
8	2760.7490	Horn	8.7	24.70	-65.7	-74.4	38.90	-51.5	-60.2	Horn
8	3220.8646	Horn	8.82	19.00	-67.4	-76.22	20.60	-65.8	-74.62	Horn
8	3681.0159	Horn	9.06	12.10	-74.1	-83.16	17.60	-68.2	-77.26	Horn
8	4141.1453	Horn	9.36	12.60	-72.9	-82.26	11.80	-73.7	-83.06	Horn
8	4601.278	Horn	9.83	13.10	-70.7	-80.53	12.40	-71.4	-81.23	Horn

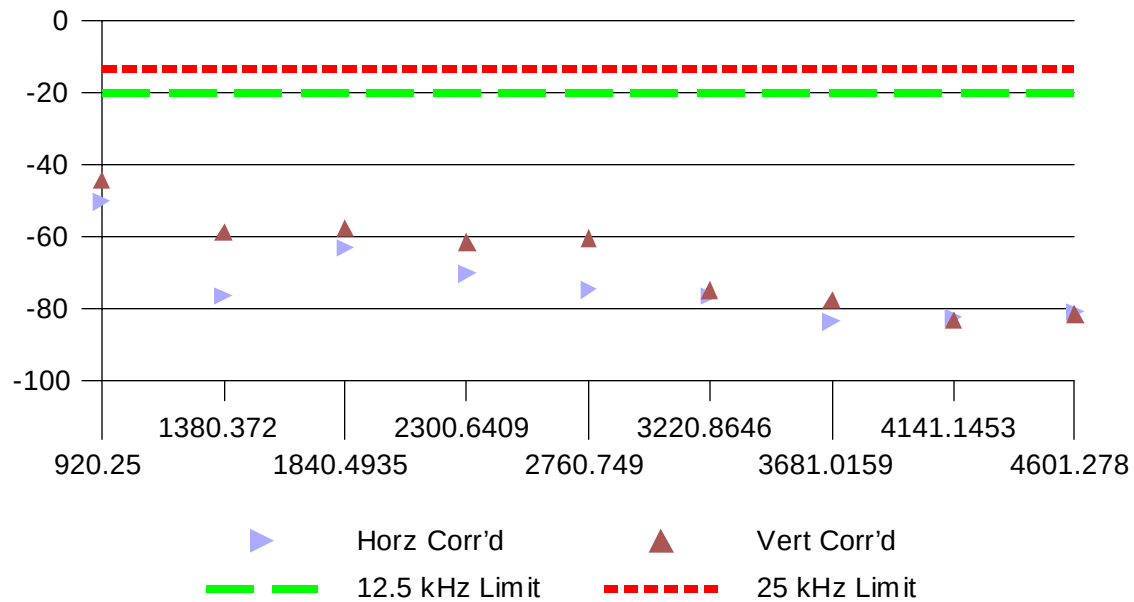


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EMI Datasheet (ITE Devices)

DNB Job Number:	28071	Date:	January 14,2001	Specification [X] FCC Parts: 90, 87, 80, & 74
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Freq	920.250	1380.3720	1840.4935	2300.6409	2760.7490	3220.8646	3681.0159	4141.1453	4601.2780
Horz Corr'd	-49.8	-75.93	-62.69	-69.93	-74.4	-76.22	-83.16	-82.26	-80.53
Vert Corr'd	-44.1	-58.43	-57.09	-61.13	-60.2	-74.62	-77.26	-83.06	-81.23
12.5 kHz Limit	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0
25 kHz Limit	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0





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EMI Datasheet (ITE Devices)

DNB Job Number:	28071	Date:	January 14,2001	Specification [X] FCC Parts: 90, 87, 80, & 74
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Transmitter Number	Fundamental Frequency in MHz	Rated Output Power in Watts	Channel Spacing in kHz	Modulation
1 - Band 5	820.125	10	25	FM

	Freq in Mhz	Dipole	H Gain	Horz Mtr	Power	Corr'd	Vert Mtr	Power	Corr'd	Antenna
9	1640.260	Horn	7.91	45.20	-39.3	-47.21	51.30	-33.2	-41.11	Horn
9	2460.390	Horn	8.63	44.00	-46.6	-55.23	48.60	-42.0	-50.63	Horn
9	3280.510	Horn	8.86	35.00	-52.0	-60.86	29.50	-57.5	-66.36	Horn
9	4100.645	Horn	9.31	18.60	-65.2	-74.51	20.50	-63.3	-72.61	Horn
9	4920.755	Horn	10.13	13.60	-68.8	-78.93	13.30	-69.1	-79.23	Horn
9	5740.906	Horn	10.43	13.80	-65.7	-76.13	12.10	-67.4	-77.83	Horn
9	6561.036	Horn	10.33	18.40	-56.9	-67.23	19.60	-55.7	-66.03	Horn
9	7381.667	Horn	10.24	19.20	-51.4	-61.64	19.00	-51.6	-61.84	Horn
9	8201.263	Horn	10.51	19.30	-51.5	-62.01	19.10	-51.7	-62.21	Horn

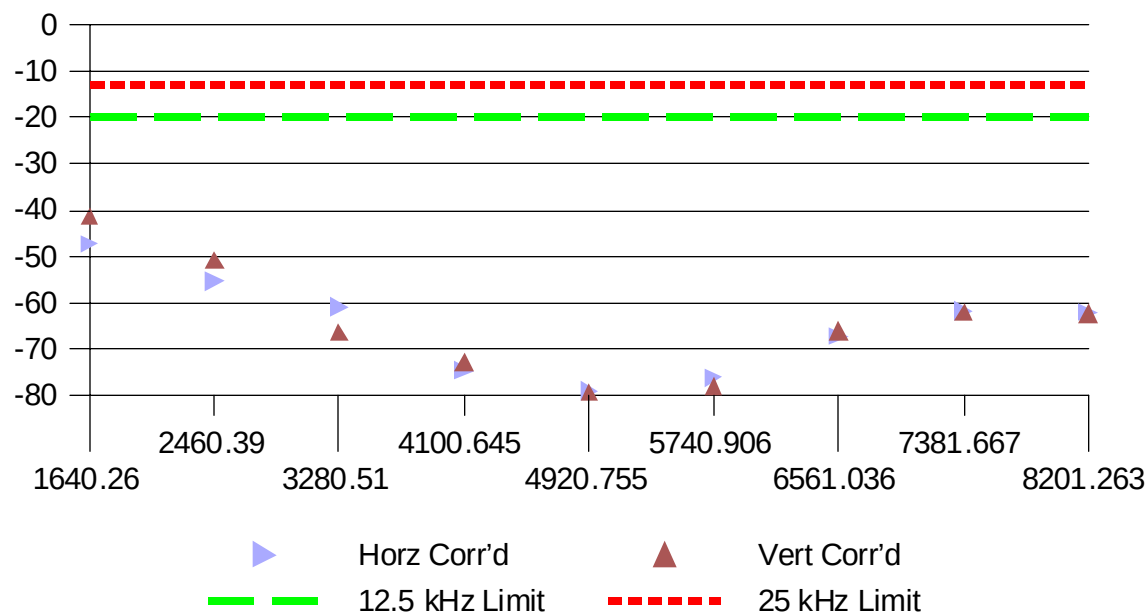


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EMI Datasheet (ITE Devices)

DNB Job Number:	28071	Date:	January 14,2001	Specification [X] FCC Parts: 90, 87, 80, & 74
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Freq	1640.260	2460.390	3280.510	4100.645	4920.755	5740.906	6561.036	7381.667	8201.263
Horz Corr'd	-47.21	-55.23	-60.86	-74.51	-78.93	-76.13	-67.23	-61.64	-62.01
Vert Corr'd	-41.11	-50.63	-66.36	-72.61	-79.23	-77.83	-66.03	-61.84	-62.21
12.5 kHz Limit	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0
25 kHz Limit	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0





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EMI Datasheet (ITE Devices)

				Specification [X] FCC Parts: 90, 87, 80, & 74
DNB Job Number:	28071		Date: January 14,2001	
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Transmitter Number	Fundamental Frequency in MHz	Rated Output Power in Watts	Channel Spacing in kHz	Modulation
1 - Band 5	820.125	1	25	FM

	Freq in Mhz	Dipole	H Gain	Horz Mtr	Power	Corr'd	Vert Mtr	Power	Corr'd	Antenna
10	1640.260	Horn	7.91	27.00	-57.5	-65.41	35.00	-49.5	-57.41	Horn
10	2460.390	Horn	8.63	35.50	-55.1	-63.73	39.70	-50.9	-59.53	Horn
10	3280.510	Horn	8.86	21.60	-65.4	-74.26	28.10	-58.9	-67.76	Horn
10	4100.645	Horn	9.31	12.20	-71.6	-80.91	12.60	-71.2	-80.51	Horn
10	4920.755	Horn	10.13	13.60	-68.8	-78.93	13.30	-69.1	-79.23	Horn
10	5740.906	Horn	10.43	13.80	-65.7	-76.13	12.20	-67.3	-77.73	Horn
10	6561.036	Horn	10.33	18.40	-56.9	-67.23	19.60	-55.7	-66.03	Horn
10	7381.667	Horn	10.24	19.20	-51.4	-61.64	19.00	-51.6	-61.84	Horn
10	8201.263	Horn	10.51	19.30	-51.5	-62.01	19.10	-51.7	-62.21	Horn

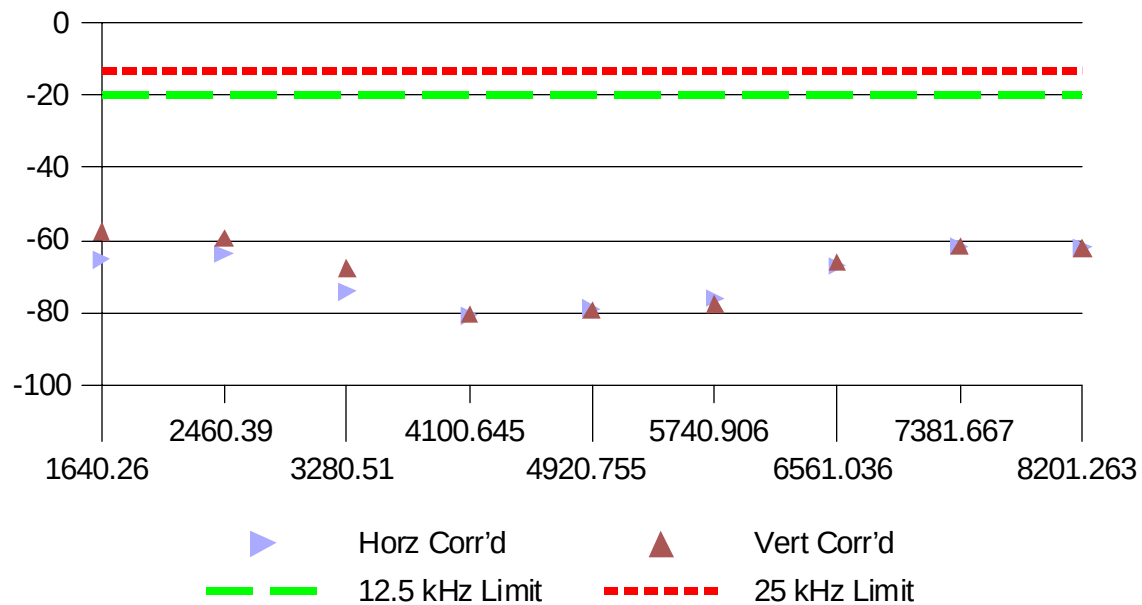


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EMI Datasheet (ITE Devices)

DNB Job Number:	28071	Date:	January 14,2001	Specification [X] FCC Parts: 90, 87, 80, & 74
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Freq	1640.260	2460.390	3280.510	4100.645	4920.755	5740.906	6561.036	7381.667	8201.263
Horz Corr'd	-65.41	-63.73	-74.26	-80.91	-78.93	-76.13	-67.13	-61.64	-62.01
Vert Corr'd	-57.41	-59.53	-67.76	-80.51	-79.23	-77.73	-66.03	-61.83	-62.21
12.5 kHz Limit	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0
25 kHz Limit	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0





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EMI Datasheet (ITE Devices)

				Specification [X] FCC Parts: 90, 87, 80, & 74
DNB Job Number:	28071		Date: January 14,2001	
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Transmitter Number	Fundamental Frequency in MHz	Rated Output Power in Watts	Channel Spacing in kHz	Modulation
1 - Band 5	867.125	10	25	FM

	Freq in Mhz	Dipole	H Gain	Horz Mtr	Power	Corr'd	Vert Mtr	Power	Corr'd	Antenna
11	1734.257	Horn	7.85	43.50	-40.7	-48.55	50.20	-34.0	-41.85	Horn
11	2601.3794	Horn	8.7	48.80	-39.8	-48.5	49.30	-39.3	-48	Horn
11	3468.5094	Horn	8.95	42.40	-43.2	-52.15	38.50	-47.1	-56.05	Horn
11	4335.6310	Horn	9.56	20.90	-60.5	-70.06	23.40	-58.0	-67.56	Horn
11	5202.7725	Horn	10.27	12.90	-68.9	-79.17	13.00	-68.8	-79.07	Horn
11	6069.9014	Horn	10.48	18.10	-58.7	-69.18	18.80	-58.0	-68.48	Horn
11	6937.0303	Horn	10.22	18.50	-55.8	-66.02	18.90	-55.4	-65.62	Horn
11	7804.1601	Horn	10.28	19.50	-51.5	-61.78	18.30	-52.7	-62.98	Horn
11	8671.2885	Horn	10.98	18.10	-52.7	-63.68	17.60	-53.2	-64.18	Horn

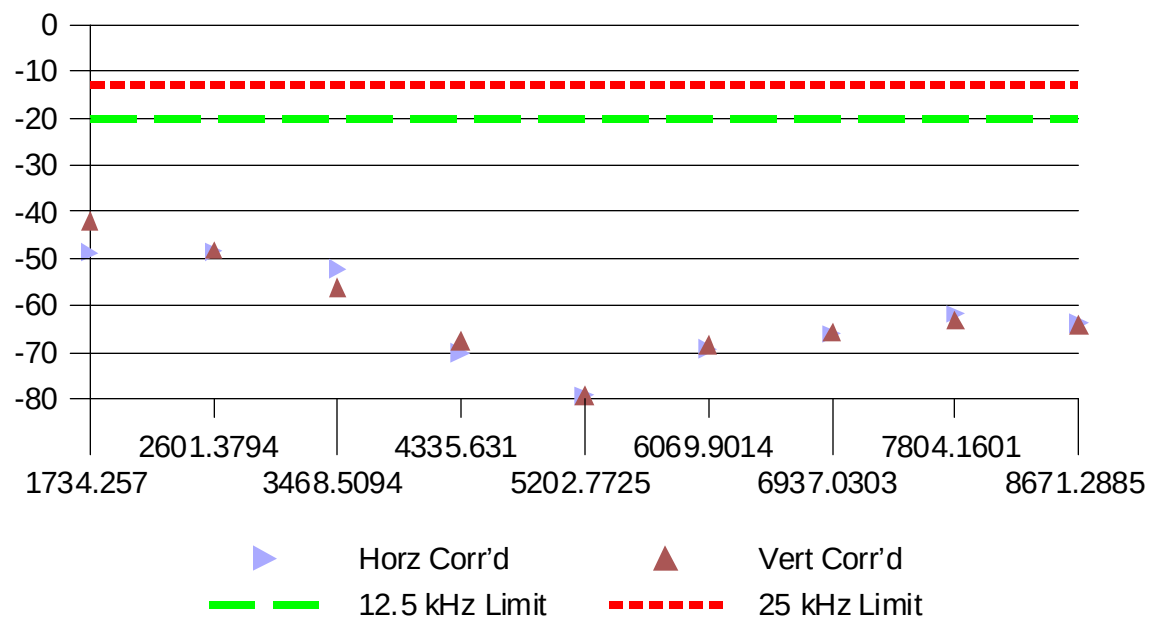


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EMI Datasheet (ITE Devices)

DNB Job Number:	28071	Date:	January 14,2001	Specification [X] FCC Parts: 90, 87, 80, & 74
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Freq	1734.257	2601.3794	3468.5094	4335.6310	5202.7725	6069.9014	6937.0303	7804.1601	8671.2885
Horz Corr'd	-48.55	-48.5	-52.15	-70.06	-79.17	-69.18	-66.02	-61.78	-63.68
Vert Corr'd	-41.85	-48.0	-56.05	-67.56	-79.07	-68.48	-65.62	-62.98	-64.18
12.5 kHz Limit	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0
25 kHz Limit	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0





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EMI Datasheet (ITE Devices)

DNB Job Number:	28071	Date:	January 14,2001	Specification [X] FCC Parts: 90, 87, 80, & 74
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Transmitter Number	Fundamental Frequency in MHz	Rated Output Power in Watts	Channel Spacing in kHz	Modulation
1 - Band 5	867.125	1	25	FM

	Freq in Mhz	Dipole	H Gain	Horz Mtr	Power	Corr'd	Vert Mtr	Power	Corr'd	Antenna
12	1734.257	Horn	7.85	26.00	-58.2	-66.05	33.40	-50.8	-58.65	Horn
12	2601.3794	Horn	8.7	41.80	-46.8	-55.5	34.00	-54.6	-63.3	Horn
12	3468.5094	Horn	8.95	25.90	-59.7	-68.65	26.70	-58.9	-67.85	Horn
12	4335.6310	Horn	9.56	11.90	-69.5	-79.06	18.70	-62.7	-72.26	Horn
12	5202.7725	Horn	10.27	12.90	-68.9	-79.17	13.00	-68.8	-79.07	Horn
12	6069.9014	Horn	10.48	18.10	-58.7	-69.18	18.80	-58.0	-68.48	Horn
12	6937.0303	Horn	10.22	18.50	-55.8	-66.02	18.90	-55.4	-65.62	Horn
12	7804.1601	Horn	10.28	19.50	-51.5	-61.78	18.30	-52.7	-62.98	Horn
12	8671.2885	Horn	10.98	18.10	-52.7	-63.68	17.60	-53.2	-64.18	Horn

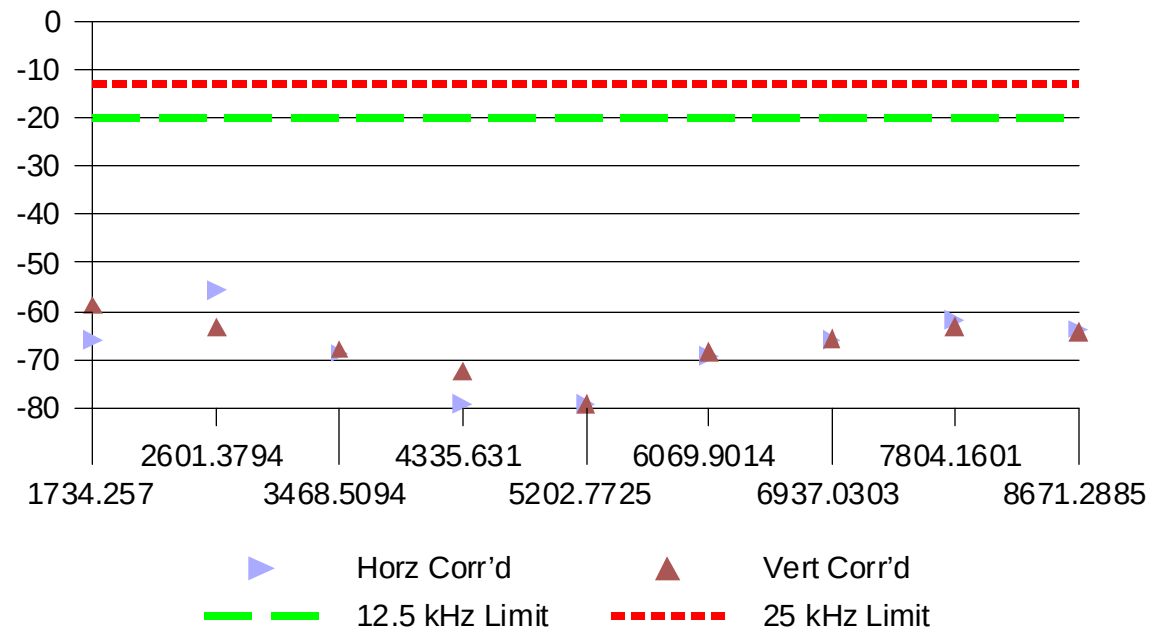


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EMI Datasheet (ITE Devices)

DNB Job Number:	28071	Date:	January 14,2001	Specification [X] FCC Parts: 90, 87, 80, & 74
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Freq	1734.257	2601.3794	3468.5094	4335.6310	5202.7725	6069.9014	6937.0303	7804.1601	8671.2885
Horz Corr'd	-66.05	-55.5	-68.65	-79.06	-79.17	-69.18	-66.02	-61.78	-63.68
Vert Corr'd	-58.65	-63.3	-67.85	-72.26	-79.07	-68.48	-65.62	-62.98	-64.18
12.5 kHz Limit	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0
25 kHz Limit	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0





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EMI Datasheet (ITE Devices)

DNB Job Number:	28071	Date:	January 14,2001	Specification [X] FCC Parts: 90, 87, 80, & 74
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Transmitter Number	Fundamental Frequency in MHz	Rated Output Power in Watts	Channel Spacing in kHz	Modulation
1 - Band 6	937.125	10	25	FM

	Freq in Mhz	Dipole	H Gain	Horz Mtr	Power	Corr'd	Vert Mtr	Power	Corr'd	Antenna
13	1874.257	Horn	7.77	31.10	-53.1	-60.87	34.30	-49.9	-57.67	Horn
13	2811.395	Horn	8.7	60.50	-28.3	-37	60.60	-28.2	-36.9	Horn
13	3748.514	Horn	9.09	28.10	-57.7	-66.79	34.70	-51.1	-60.19	Horn
13	4685.640	Horn	9.91	16.40	-65.2	-75.11	14.70	-66.9	-76.81	Horn
13	5622.770	Horn	10.39	11.70	-69.3	-79.69	12.80	-68.2	-78.59	Horn
13	6559.902	Horn	10.33	19.50	-55.4	-65.73	19.20	-55.7	-66.03	Horn
13	7497.030	Horn	10.25	17.00	-52.5	-62.75	20.20	-49.3	-59.55	Horn
13	8434.159	Horn	10.75	16.70	-54.1	-64.85	17.70	-53.1	-63.85	Horn
13	9371.276	Horn	11.45	18.00	-52.8	-64.25	18.70	-52.1	-63.55	Horn

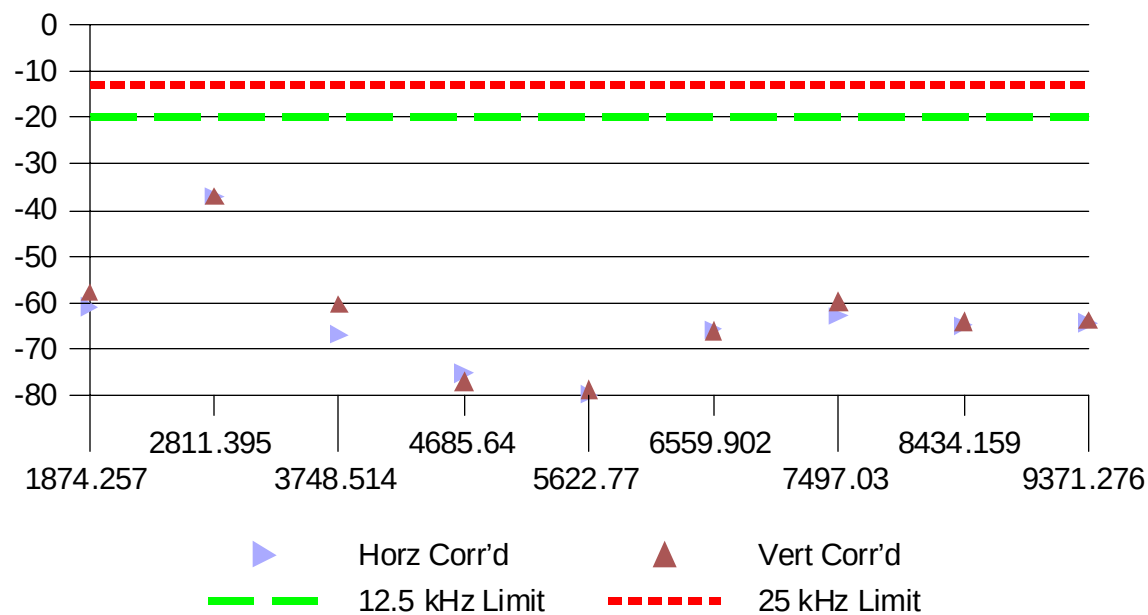


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EMI Datasheet (ITE Devices)

DNB Job Number:	28071	Date:	January 14,2001	Specification [X] FCC Parts: 90, 87, 80, & 74
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Freq	1874.257	2811.395	3748.514	4685.640	5622.770	6559.902	7497.030	8434.159	9371.276
Horz Corr'd	-60.87	-37.0	-66.79	-75.11	-79.69	-65.73	-62.75	-64.85	-64.25
Vert Corr'd	-57.67	-36.9	-60.19	-76.81	-78.59	-66.03	-59.55	-63.85	-63.55
12.5 kHz Limit	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0
25 kHz Limit	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0





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EMI Datasheet (ITE Devices)

DNB Job Number:	28071	Date:	January 14,2001	Specification [X] FCC Parts: 90, 87, 80, & 74
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Transmitter Number	Fundamental Frequency in MHz	Rated Output Power in Watts	Channel Spacing in kHz	Modulation
1 - Band 6	937.125	1	25	FM

	Freq in Mhz	Dipole	H Gain	Horz Mtr	Power	Corr'd	Vert Mtr	Power	Corr'd	Antenna
14	1874.257	Horn	7.77	21.40	-62.8	-70.57	23.30	-60.9	-68.67	Horn
14	2811.395	Horn	8.7	35.00	-53.8	-62.5	53.80	-35.0	-43.7	Horn
14	3748.514	Horn	9.09	16.10	-69.7	-78.79	14.10	-71.7	-80.79	Horn
14	4685.640	Horn	9.91	15.30	-66.3	-76.21	13.40	-68.2	-78.11	Horn
14	5622.770	Horn	10.39	11.70	-69.3	-79.69	12.80	-68.2	-78.59	Horn
14	6559.902	Horn	10.33	19.50	-55.4	-65.73	19.20	-55.7	-66.03	Horn
14	7497.030	Horn	10.25	17.00	-52.5	-62.75	20.20	-49.3	-59.55	Horn
14	8434.159	Horn	10.75	16.70	-54.1	-64.85	17.70	-53.1	-63.85	Horn
14	9371.276	Horn	11.45	18.00	-52.8	-64.25	18.70	-52.1	-63.55	Horn

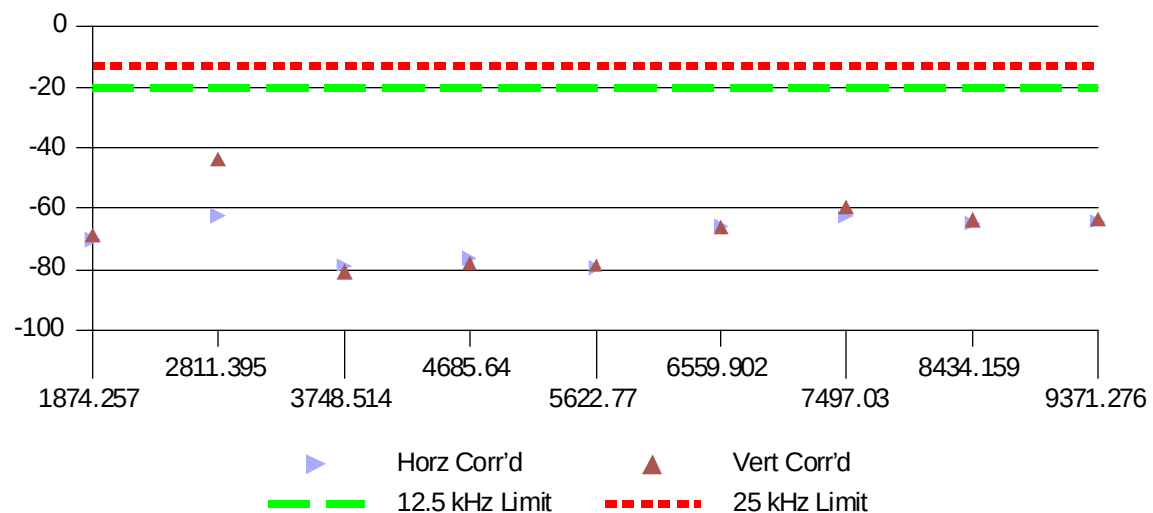


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EMI Datasheet (ITE Devices)

DNB Job Number:	28071	Date:	January 14,2001	Specification [X] FCC Parts: 90, 87, 80, & 74
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Freq	1874.257	2811.395	3748.514	4685.640	5622.770	6559.902	7497.030	8434.159	9371.276
Horz Corr'd	-70.57	-62.5	-78.79	-76.21	-79.69	-65.73	-62.75	-64.85	-64.25
Vert Corr'd	-68.67	-43.7	-80.79	-78.11	-78.59	-66.03	-59.55	-63.85	-63.55
12.5 kHz Limit	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0
25 kHz Limit	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0





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EMI Datasheet (ITE Devices)

				Specification [X] FCC Parts: 90, 87, 80, & 74
DNB Job Number:	28071		Date: January 14,2001	
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Transmitter Number	Fundamental Frequency in MHz	Rated Output Power in Watts	Channel Spacing in kHz	Modulation
2	155.125	10	25	FM

	Freq in Mhz	Dipole	H Gain	Horz Mtr	Power	Corr'd	Vert Mtr	Power	Corr'd	Antenna
15	310.2480	9.37	-	11.70	-93.8	-93.8	10.70	-94.8	-94.8	Log
15	465.3720	6.24	-	11.60	-82.8	-82.8	13.40	-81.0	-81	Log
15	620.4960	4.68	-	12.20	-86.0	-86	12.50	-85.7	-85.7	Log
15	775.6200	3.75	-	11.10	-83.8	-83.8	12.20	-82.7	-82.7	Log
15	930.7440	3.12	-	12.00	-80.4	-80.4	12.30	-80.1	-80.1	Log
15	1085.8680	Horn	6.17	11.60	-77.5	-83.67	11.90	-77.2	-83.37	Horn
15	1240.9920	Horn	6.92	12.20	-77.5	-84.42	11.30	-78.4	-85.32	Horn
15	1396.1160	Horn	7.59	11.30	-77.9	-85.49	12.80	-76.4	-83.99	Horn
15	1551.2400	Horn	7.96	11.40	-75.3	-83.26	11.80	-74.9	-82.86	Horn

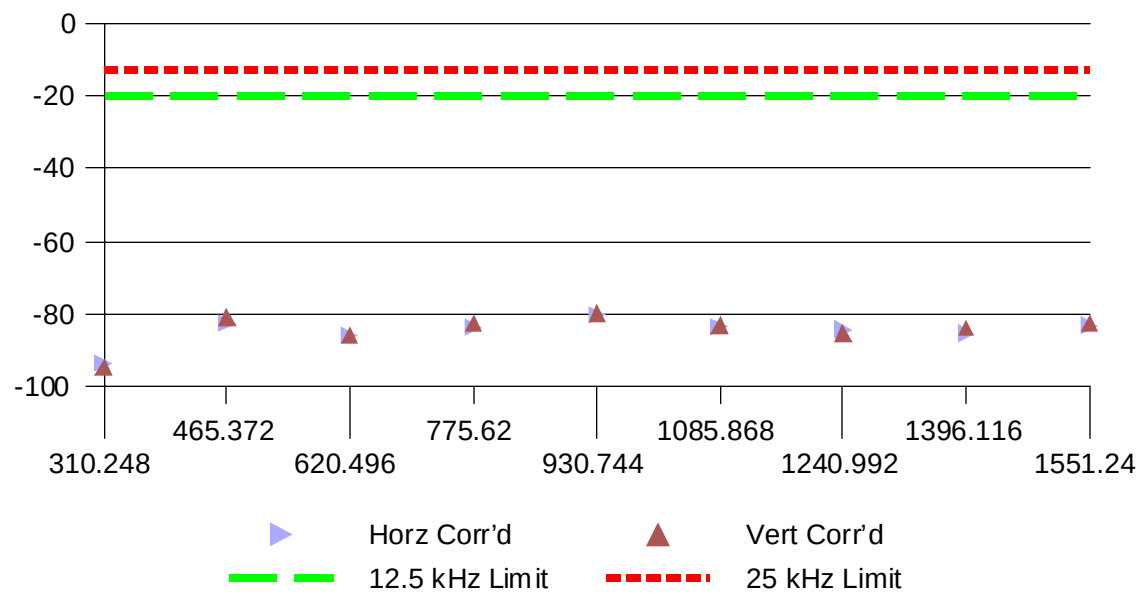


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EMI Datasheet (ITE Devices)

DNB Job Number:	28071	Date:	January 14,2001	Specification [X] FCC Parts: 90, 87, 80, & 74
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Freq	310.2480	465.3720	620.4960	775.6200	930.7440	1085.8680	1240.9920	1396.1160	1551.2400
Horz Corr'd	-93.8	-82.8	-86.0	-83.8	-80.4	-83.67	-84.42	-85.49	-83.26
Vert Corr'd	-94.8	-81.0	-85.7	-82.7	-80.1	-83.37	-85.32	-83.99	-82.86
12.5 kHz Limit	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0
25 kHz Limit	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0





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EMI Datasheet (ITE Devices)

				Specification [X] FCC Parts: 90, 87, 80, & 74
DNB Job Number:	28071		Date: January 14,2001	
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Transmitter Number	Fundamental Frequency in MHz	Rated Output Power in Watts	Channel Spacing in kHz	Modulation
2	155.125	1	25	FM

	Freq in Mhz	Dipole	H Gain	Horz Mtr	Power	Corr'd	Vert Mtr	Power	Corr'd	Antenna
16	310.2480	9.37	-	11.90	-93.6	-93.6	10.90	-94.6	-94.6	Log
16	465.3720	6.24	-	12.50	-81.9	-81.9	11.40	-83.0	-83	Log
16	620.4960	4.68	-	12.10	-86.1	-86.1	11.70	-86.5	-86.5	Log
16	775.6200	3.75	-	12.60	-82.3	-82.3	11.50	-83.4	-83.4	Log
16	930.7440	3.12	-	11.40	-81.0	-81	13.50	-78.9	-78.9	Log
16	1085.8680	Horn	6.17	10.90	-78.2	-84.37	12.20	-76.9	-83.07	Horn
16	1240.9920	Horn	6.92	11.70	-78.0	-84.92	11.40	-78.3	-85.22	Horn
16	1396.1160	Horn	7.59	11.50	-77.6	-85.19	11.30	-77.9	-85.49	Horn
16	1551.2400	Horn	7.96	12.30	-74.4	-82.36	12.50	-74.2	-82.16	Horn

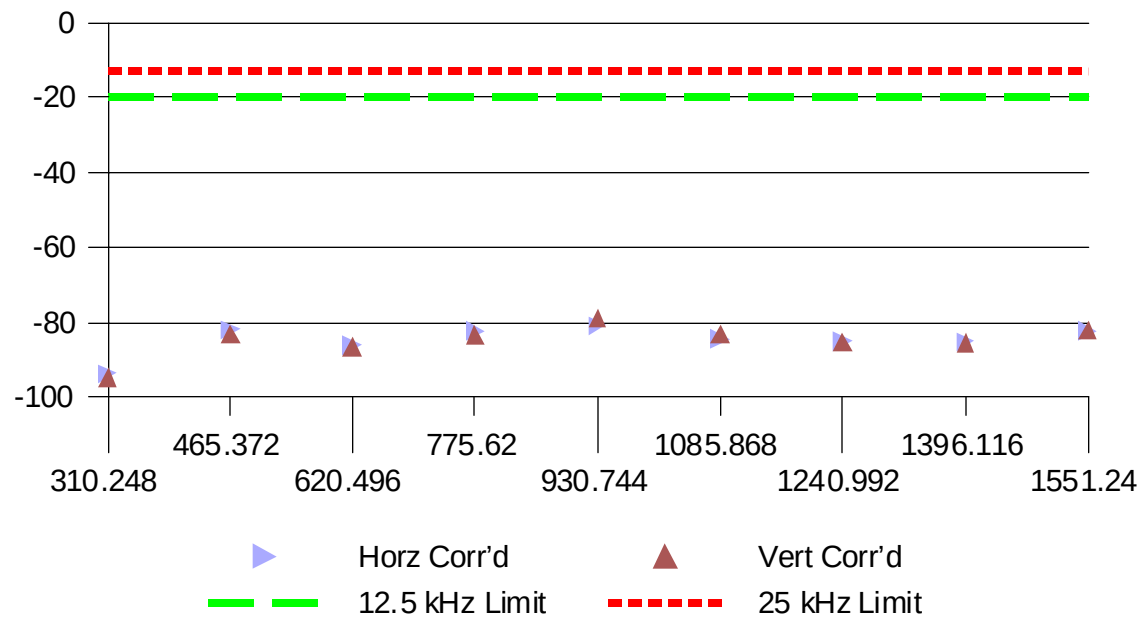


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EMI Datasheet (ITE Devices)

DNB Job Number:	28071	Date:	January 14,2001	Specification [X] FCC Parts: 90, 87, 80, & 74
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Freq	310.2480	465.3720	620.4960	775.6200	930.7440	1085.8680	1240.9920	1396.1160	1551.2400
Horz Corr'd	-93.6	-81.9	-86.1	-82.3	-81.0	-84.37	-84.92	-85.19	-82.36
Vert Corr'd	-94.6	-83.0	-86.5	-83.4	-78.9	-83.07	-85.22	-85.49	-82.16
12.5 kHz Limit	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0
25 kHz Limit	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0





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EMI Datasheet (ITE Devices)

				Specification [X] FCC Parts: 90, 87, 80, & 74
DNB Job Number:	28071		Date: January 14,2001	
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Transmitter Number	Fundamental Frequency in MHz	Rated Output Power in Watts	Channel Spacing in kHz	Modulation
2	155.125	10	12.5	Digital

	Freq in Mhz	Dipole	H Gain	Horz Mtr	Power	Corr'd	Vert Mtr	Power	Corr'd	Antenna
17	310.2500	9.37	-	11.60	-93.9	-93.9	12.40	-93.1	-93.1	Log
17	465.3750	6.24	-	12.90	-81.5	-81.5	20.60	-73.8	-73.8	Log
17	620.5000	4.68	-	12.30	-85.9	-85.9	13.00	-85.2	-85.2	Log
17	775.6250	3.75	-	12.60	-82.3	-82.3	12.70	-82.2	-82.2	Log
17	930.7500	3.12	-	12.60	-79.8	-79.8	12.90	-79.5	-79.5	Log
17	1085.8750	Horn	6.17	12.70	-76.4	-82.57	11.90	-77.2	-83.37	Horn
17	1241.0000	Horn	6.92	12.90	-76.8	-83.72	13.50	-76.2	-83.12	Horn
17	1396.1250	Horn	7.59	11.60	-77.5	-85.09	12.10	-77.1	-84.69	Horn
17	1551.2500	Horn	7.96	12.80	-73.9	-81.86	11.50	-75.7	-83.66	Horn

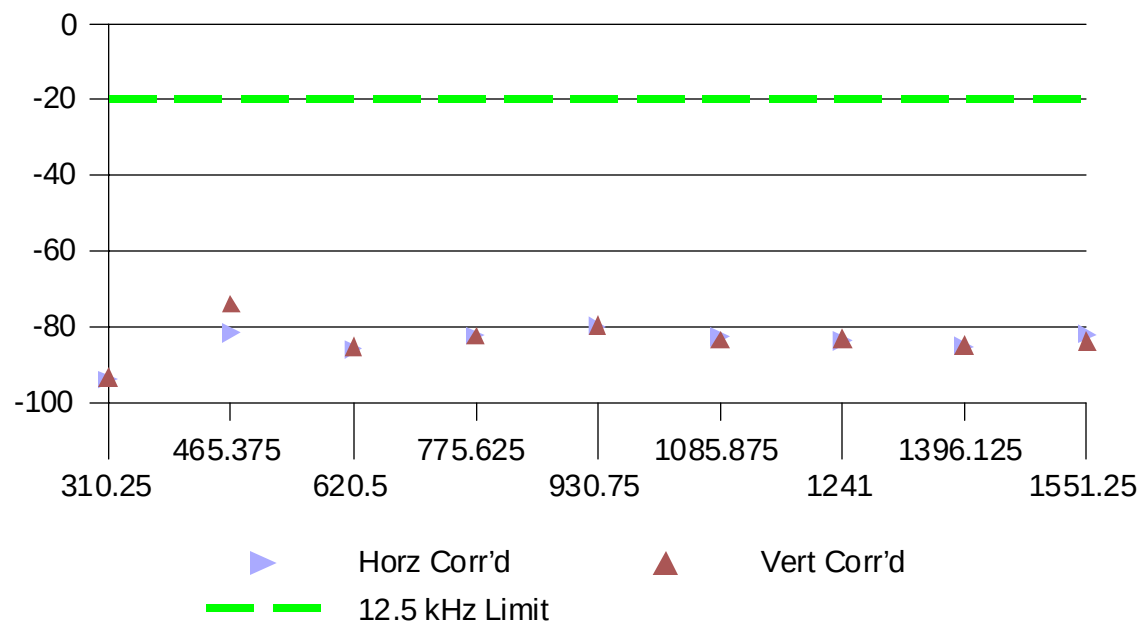


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EMI Datasheet (ITE Devices)

DNB Job Number:	28071	Date:	January 14,2001	Specification [X] FCC Parts: 90, 87, 80, & 74
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Freq	310.2500	465.3750	620.5000	775.6250	930.7500	1085.8750	1241.0000	1396.1250	1551.2500
Horz Corr'd	-93.9	-81.5	-85.9	-82.3	-79.8	-82.57	-83.72	-85.09	-81.86
Vert Corr'd	-93.1	-73.8	-85.2	-82.2	-79.5	-83.37	-83.12	-84.69	-83.66
12.5 kHz Limit	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0





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EMI Datasheet (ITE Devices)

				Specification [X] FCC Parts: 90, 87, 80, & 74
DNB Job Number:	28071		Date: January 14,2001	
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000		Serial Number: N/A	
Description:	Avionics Transceiver			

Transmitter Number	Fundamental Frequency in MHz	Rated Output Power in Watts	Channel Spacing in kHz	Modulation
3	485.125	4	25	FM

	Freq in Mhz	Dipole	H Gain	Horz Mtr	Power	Corr'd	Vert Mtr	Power	Corr'd	Antenna
18	970.249	3.00	-	12.00	-74.5	-74.5	12.00	-74.5	-74.5	Log
18	1455.373	Horn	7.83	12.00	-80.6	-88.43	12.00	-80.6	-88.43	Horn
18	1940.512	Horn	7.73	12.40	-73.0	-80.73	13.00	-72.6	-80.33	Horn
18	2425.625	Horn	8.56	13.30	-80.8	-89.36	13.20	-80.9	-89.46	Horn
18	2910.75	Horn	8.7	12.30	-83.1	-91.8	13.20	-82.2	-90.9	Horn
18	3395.885	Horn	8.92	12.90	-76.1	-85.02	12.80	-76.2	-85.12	Horn
18	3881.010	Horn	9.15	12.10	-75.2	-84.35	12.40	-74.9	-84.05	Horn
18	4366.12	Horn	9.59	12.90	-70.7	-80.29	12.50	-71.1	-80.69	Horn
18	4851.256	Horn	10.06	12.00	-68.4	-78.46	12.90	-67.5	-77.56	Horn

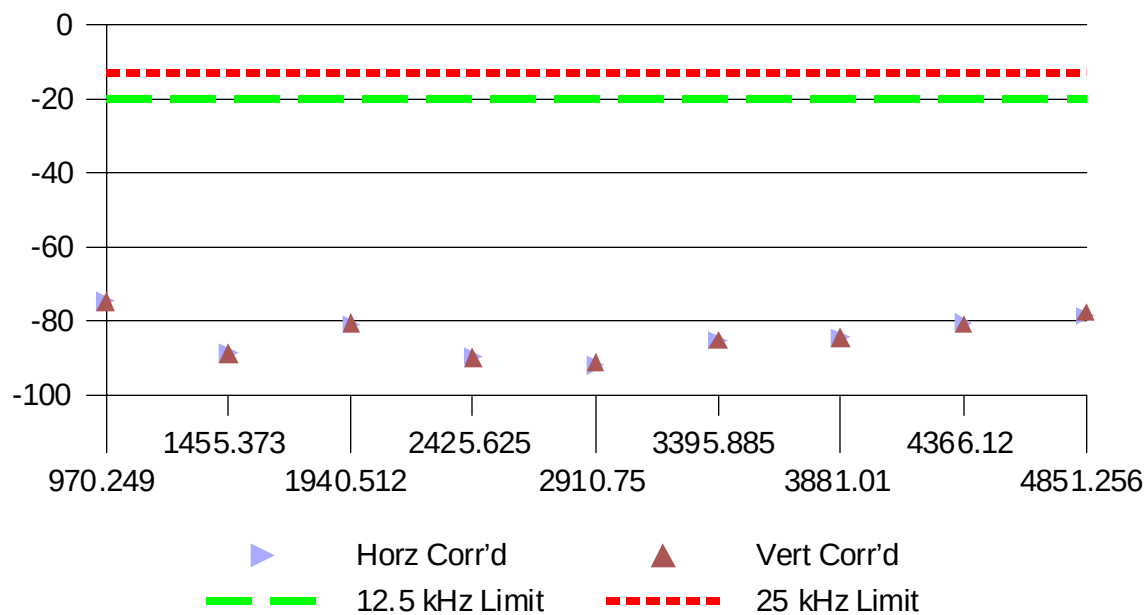


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EMI Datasheet (ITE Devices)

DNB Job Number:	28071	Date:	January 14,2001	Specification [X] FCC Parts: 90, 87, 80, & 74
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Freq	970.249	1455.373	1940.512	2425.625	2910.75	3395.885	3881.010	4366.12	4851.256
Horz Corr'd	-74.5	-88.43	-80.73	-89.36	-91.8	-85.02	-84.35	-80.29	-78.46
Vert Corr'd	-74.5	-88.43	-80.33	-89.46	-90.9	-85.12	-84.05	-80.69	-77.56
12.5 kHz Limit	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0
25 kHz Limit	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0





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EMI Datasheet (ITE Devices)

DNB Job Number:	28071	Date:	January 14,2001	Specification [X] FCC Parts: 90, 87, 80, & 74
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Transmitter Number	Fundamental Frequency in MHz	Rated Output Power in Watts	Channel Spacing in kHz	Modulation
3	485.125	1	25	FM

	Freq in Mhz	Dipole	H Gain	Horz Mtr	Power	Corr'd	Vert Mtr	Power	Corr'd	Antenna
19	970.249	3.00	-	12.00	-74.5	-74.5	12.00	-74.5	-74.5	Log
19	1455.373	Horn	7.83	12.00	-80.6	-88.43	12.00	-80.6	-88.43	Horn
19	1940.512	Horn	7.73	12.40	-73.0	-80.73	13.00	-72.6	-80.33	Horn
19	2425.625	Horn	8.56	13.30	-80.8	-89.36	13.20	-80.9	-89.46	Horn
19	2910.75	Horn	8.7	12.30	-83.1	-91.8	13.20	-82.2	-90.9	Horn
19	3395.885	Horn	8.92	12.90	-76.1	-85.02	12.80	-76.2	-85.12	Horn
19	3881.010	Horn	9.15	12.10	-75.2	-84.35	12.40	-74.9	-84.05	Horn
19	4366.10	Horn	9.59	12.90	-70.7	-80.29	12.50	-71.1	-80.69	Horn
19	4851.256	Horn	10.06	12.00	-68.4	-78.46	12.90	-67.5	-77.56	Horn

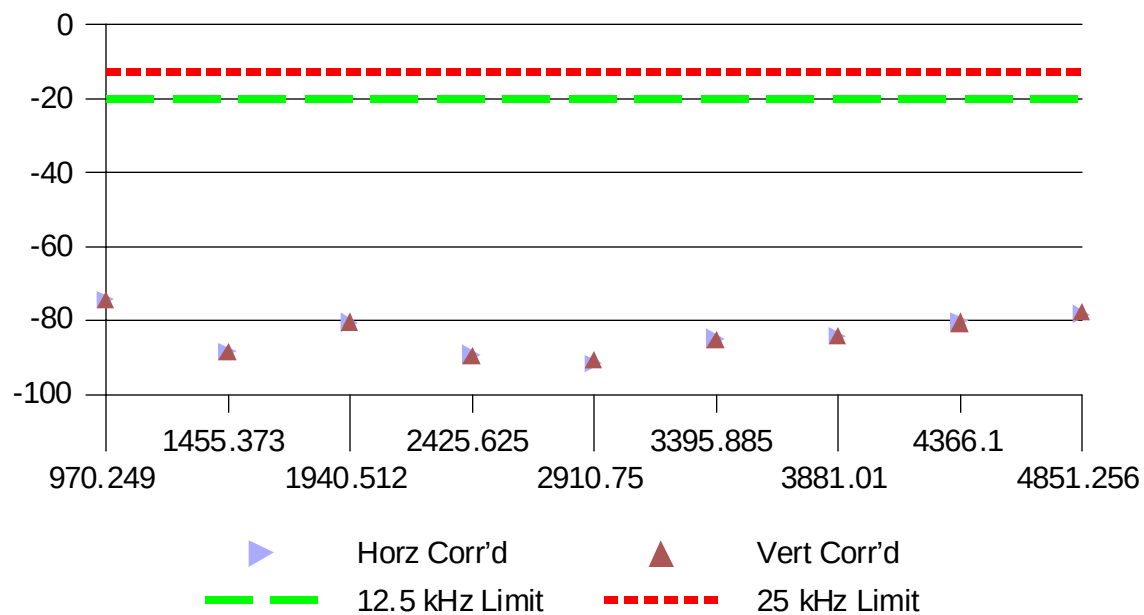


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EMI Datasheet (ITE Devices)

DNB Job Number:	28071	Date:	January 14,2001	Specification [X] FCC Parts: 90, 87, 80, & 74
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Freq	970.249	1455.373	1940.512	2425.625	2910.750	3395.885	3881.010	4366.100	4851.256
Horz Corr'd	-74.5	-88.43	-80.73	-89.36	-91.8	-85.02	-84.35	-80.29	-78.46
Vert Corr'd	-74.5	-88.43	-80.33	-89.46	-90.9	-85.12	-84.05	-80.69	-77.56
12.5 kHz Limit	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0
25 kHz Limit	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0





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EMI Datasheet (ITE Devices)

DNB Job Number:	28071	Date:	January 14,2001	Specification [X] FCC Parts: 90, 87, 80, & 74
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Transmitter Number	Fundamental Frequency in MHz	Rated Output Power in Watts	Channel Spacing in kHz	Modulation
3	485.125	4	12.5	Digital

	Freq in Mhz	Dipole	H Gain	Horz Mtr	Power	Corr'd	Vert Mtr	Power	Corr'd	Antenna
20	970.249	3.00	-	12.00	-74.5	-74.5	12.00	-74.5	-74.5	Log
20	1455.373	Horn	7.83	12.00	-80.6	-88.43	12.00	-80.6	-88.43	Horn
20	1940.512	Horn	7.73	12.40	-73.0	-80.73	13.00	-72.6	-80.33	Horn
20	2425.625	Horn	8.56	13.30	-80.8	-89.36	13.20	-80.9	-89.46	Horn
20	2910.75	Horn	8.7	12.30	-83.1	-91.8	13.30	-82.1	-90.8	Horn
20	3395.885	Horn	8.92	12.90	-76.1	-85.02	12.80	-76.2	-85.12	Horn
20	3881.010	Horn	9.15	12.10	-75.2	-84.35	12.40	-74.9	-84.05	Horn
20	4366.10	Horn	9.59	12.90	-70.7	-80.29	12.50	-71.1	-80.69	Horn
20	4851.256	Horn	10.06	12.00	-68.4	-78.46	12.90	-67.5	-77.56	Horn

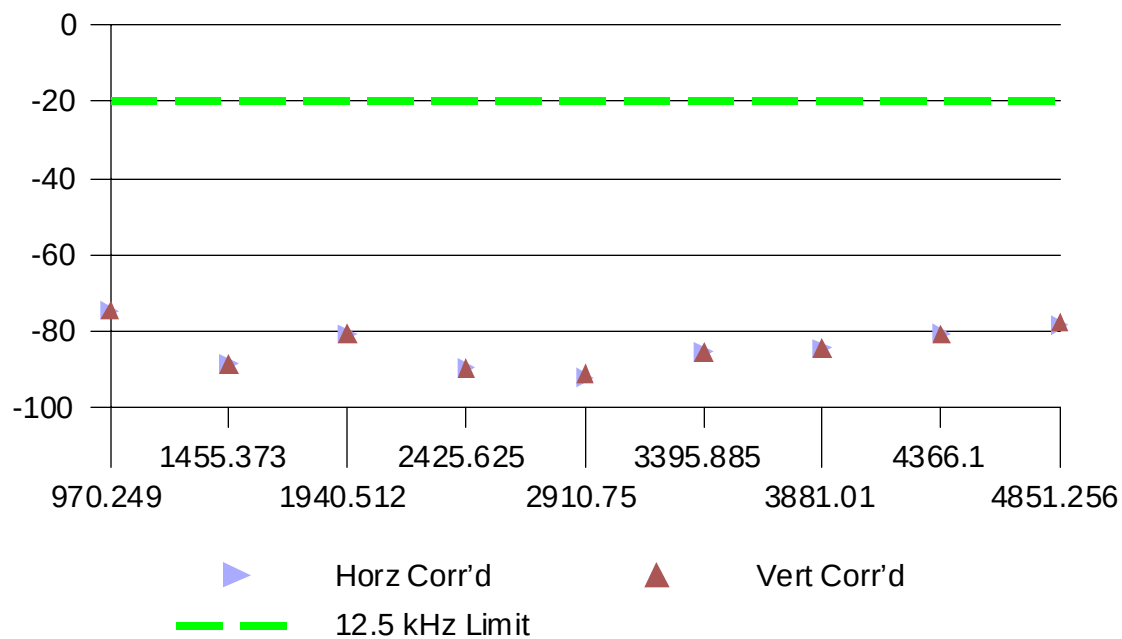


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EMI Datasheet (ITE Devices)

DNB Job Number:	28071	Date:	January 14,2001	Specification [X] FCC Parts: 90, 87, 80, & 74
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Freq	970.249	1455.373	1940.512	2425.625	2910.750	3395.885	3881.010	4366.100	4851.256
Horz Corr'd	-74.5	-88.43	-80.73	-89.36	-91.80	-85.02	-84.35	-80.29	-78.46
Vert Corr'd	-74.5	-88.43	-80.33	-89.46	-90.8	-85.12	-84.05	-80.69	-77.56
12.5 kHz Limit	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0





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EMI Datasheet (ITE Devices)

				Specification [X] FCC Parts: 90, 87, 80, & 74
DNB Job Number:	28071	Date:	January 14,2001	
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Transmitter Number	Fundamental Frequency in MHz	Rated Output Power in Watts	Channel Spacing in kHz	Modulation
4	815.125	3	25	FM

	Freq in Mhz	Dipole	H Gain	Horz Mtr	Power	Corr'd	Vert Mtr	Power	Corr'd	Antenna
21	1630.256	Horn	7.91	12.90	-75.1	-83.01	13.20	-74.8	-82.71	Horn
21	2445.384	Horn	8.60	21.30	-70.4	-79	30.80	-60.9	-69.5	Horn
21	3260.512	Horn	8.84	12.10	-77.0	-85.84	12.60	-76.5	-85.34	Horn
21	4075.640	Horn	9.28	12.30	-72.0	-81.28	12.80	-71.5	-80.78	Horn
21	4890.768	Horn	10.1	12.30	-68.4	-78.5	12.30	-68.4	-78.5	Horn
21	5705.896	Horn	10.42	11.80	-66.2	-76.62	11.70	-66.3	-76.72	Horn
21	6521.024	Horn	10.34	19.90	-56.0	-66.34	18.70	-57.2	-67.54	Horn
21	7336.146	Horn	10.24	19.20	-51.7	-61.94	19.10	-51.8	-62.04	Horn
21	8151.274	Horn	10.46	18.30	-52.7	-63.16	18.40	-52.8	-63.26	Horn

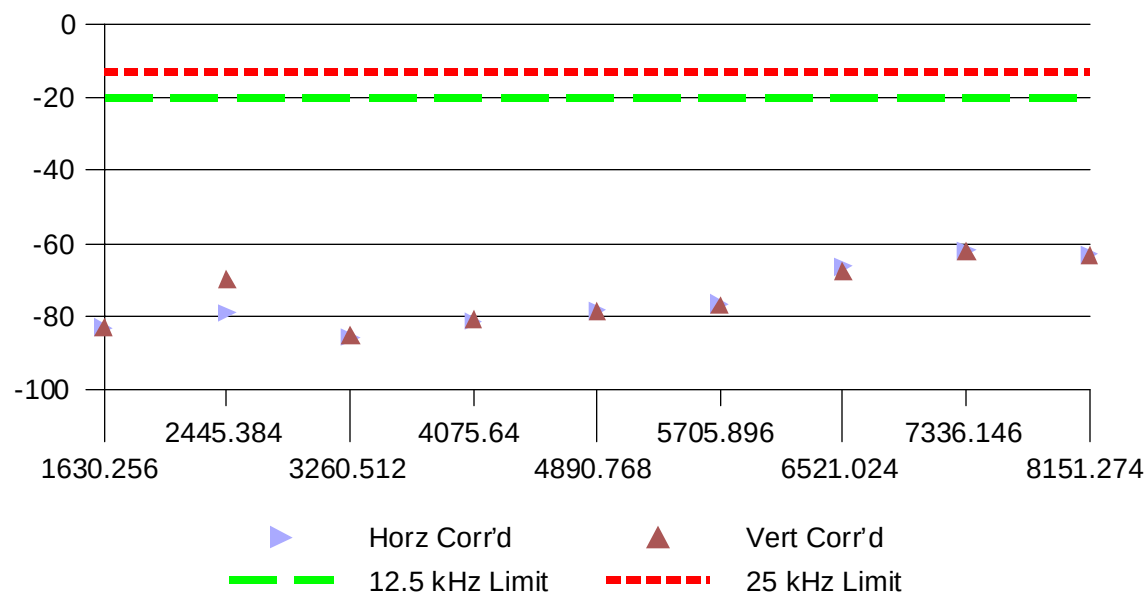


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EMI Datasheet (ITE Devices)

DNB Job Number:	28071	Date:	January 14,2001	Specification [X] FCC Parts: 90, 87, 80, & 74
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Freq	1630.256	2445.384	3260.512	4075.640	4890.768	5705.896	6521.024	7336.146	8151.2740
Horz Corr'd	-83.01	-79.0	-85.84	-81.28	-78.5	-76.62	-66.34	-61.94	-63.16
Vert Corr'd	-82.71	-69.5	-85.34	-80.78	-78.5	-76.72	-67.54	-62.04	-63.26
12.5 kHz Limit	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0
25 kHz Limit	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0





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EMI Datasheet (ITE Devices)

				Specification [X] FCC Parts: 90, 87, 80, & 74
DNB Job Number:	28071		Date: January 14,2001	
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Transmitter Number	Fundamental Frequency in MHz	Rated Output Power in Watts	Channel Spacing in kHz	Modulation
4	815.125	1	25	FM

	Freq in Mhz	Dipole	H Gain	Horz Mtr	Power	Corr'd	Vert Mtr	Power	Corr'd	Antenna
22	1630.256	Horn	7.91	12.90	-75.1	-83.01	13.20	-74.8	-82.71	Horn
22	2445.384	Horn	8.60	15.20	-76.5	-85.1	19.40	-72.3	-80.9	Horn
22	3260.512	Horn	8.84	12.10	-77.0	-85.84	12.00	-77.1	-85.94	Horn
22	4075.640	Horn	9.28	12.30	-72.0	-81.28	12.80	-71.5	-80.78	Horn
22	4890.768	Horn	10.1	12.30	-68.4	-78.5	12.30	-68.4	-78.5	Horn
22	5705.896	Horn	10.42	11.80	-66.2	-76.62	11.70	-66.3	-76.72	Horn
22	6521.024	Horn	10.34	19.90	-56.0	-66.34	18.70	-57.2	-67.54	Horn
22	7336.146	Horn	10.24	19.20	-51.7	-61.94	19.10	-51.8	-62.04	Horn
22	8151.274	Horn	10.46	18.30	-52.7	-63.16	18.40	-52.8	-63.26	Horn

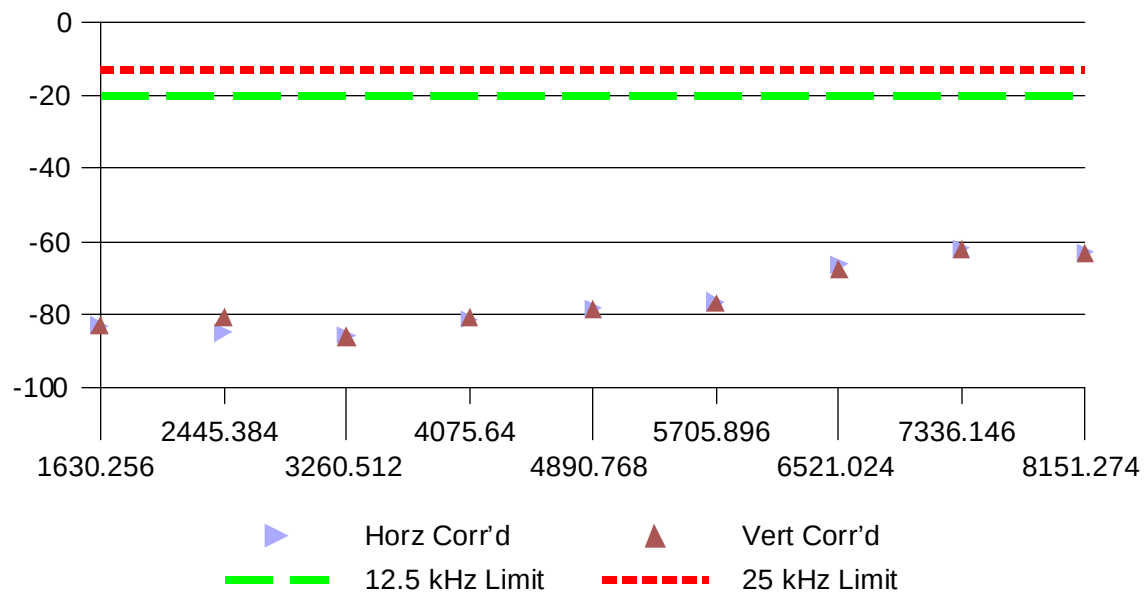


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EMI Datasheet (ITE Devices)

DNB Job Number:	28071	Date:	January 14,2001	Specification [X] FCC Parts: 90, 87, 80, & 74
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Freq	1630.256	2445.384	3260.512	4075.640	4890.768	5705.896	6521.024	7336.146	8151.274
Horz Corr'd	-83.01	-85.1	-85.84	-81.28	-78.5	-76.62	-66.34	-61.94	-63.16
Vert Corr'd	-82.71	-80.9	-85.94	-80.78	-78.5	-76.72	-67.54	-62.04	-63.26
12.5 kHz Limit	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0
25 kHz Limit	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0





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EMI Datasheet (ITE Devices)

				Specification [X] FCC Parts: 90, 87, 80, & 74
DNB Job Number:	28071		Date: January 14,2001	
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000		Serial Number: N/A	
Description:	Avionics Transceiver			

Transmitter Number	Fundamental Frequency in MHz	Rated Output Power in Watts	Channel Spacing in kHz	Modulation
4	815.125	3	12.5	Digital

	Freq in Mhz	Dipole	H Gain	Horz Mtr	Power	Corr'd	Vert Mtr	Power	Corr'd	Antenna
23	1630.256	Horn	7.91	11.80	-76.2	-84.11	12.80	-75.2	-83.11	Horn
23	2445.384	Horn	8.60	24.50	-67.2	-75.8	34.40	-57.3	-65.9	Horn
23	3260.512	Horn	8.84	13.30	-75.8	-84.64	13.40	-75.7	-84.54	Horn
23	4075.640	Horn	9.28	12.70	-71.6	-80.88	12.80	-71.5	-80.78	Horn
23	4890.768	Horn	10.1	12.50	-68.4	-78.5	12.30	-68.6	-78.7	Horn
23	5705.896	Horn	10.42	11.80	-66.2	-76.62	11.70	-66.3	-76.72	Horn
23	6521.024	Horn	10.34	11.90	-64.0	-74.34	18.70	-57.2	-67.54	Horn
23	7336.146	Horn	10.24	19.20	-51.7	-61.94	19.10	-51.8	-62.04	Horn
23	8151.274	Horn	10.46	18.20	-52.6	-63.06	18.40	-52.8	-63.26	Horn

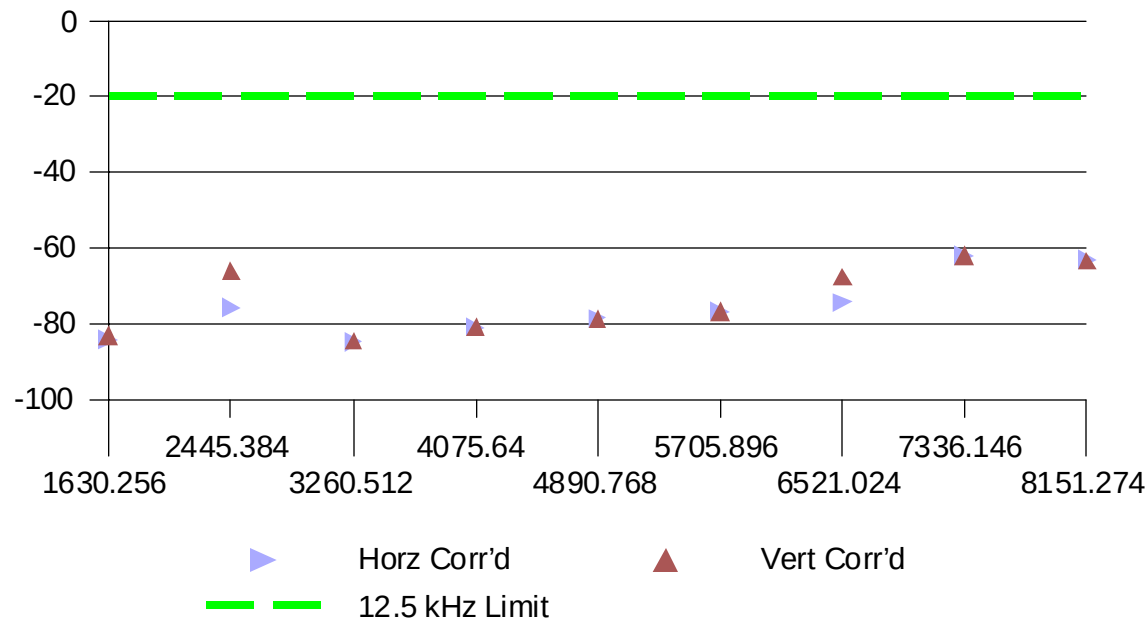


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EMI Datasheet (ITE Devices)

DNB Job Number:	28071	Date:	January 14,2001	Specification [X] FCC Parts: 90, 87, 80, & 74
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Freq	1630.256	2445.384	3260.512	4075.640	4890.768	5705.896	6521.024	7336.146	8151.274
Horz Corr'd	-84.11	-75.8	-84.64	-80.88	-78.5	-76.62	-74.34	-61.94	-63.06
Vert Corr'd	-83.11	-65.9	-84.54	-80.78	-78.7	-76.72	-67.54	-62.04	-63.26
12.5 kHz Limit	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0





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EMI Datasheet (ITE Devices)

DNB Job Number:	28071	Date:	January 14,2001	Specification [X] FCC Parts: 90, 87, 80, & 74
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Transmitter Number	Fundamental Frequency in MHz	Rated Output Power in Watts	Channel Spacing in kHz	Modulation
4	859.125	3	25	FM

	Freq in Mhz	Dipole	H Gain	Horz Mtr	Power	Corr'd	Vert Mtr	Power	Corr'd	Antenna
24	1718.2400	Horn	7.86	12.80	-71.3	-79.16	12.60	-71.5	-79.36	Horn
24	2577.3600	Horn	8.7	13.00	-76.5	-85.2	14.30	-75.2	-83.9	Horn
24	3436.4800	Horn	8.94	11.80	-78.3	-87.24	11.70	-78.4	-87.34	Horn
24	4295.6000	Horn	9.52	13.10	-71.8	-81.32	11.50	-73.4	-82.92	Horn
24	5152.4718	Horn	10.25	12.60	-70.0	-80.25	11.60	-71.0	-81.25	Horn
24	6013.839	Horn	10.5	11.80	-67.7	-78.2	11.90	-67.6	-78.1	Horn
24	6872.959	Horn	10.24	18.50	-54.4	-64.64	18.70	-54.2	-64.44	Horn
24	7732.079	Horn	10.27	17.50	-54.3	-64.57	17.80	-54.0	-64.27	Horn
24	8591.199	Horn	10.91	18.30	-52.5	-63.41	17.20	-53.6	-64.51	Horn

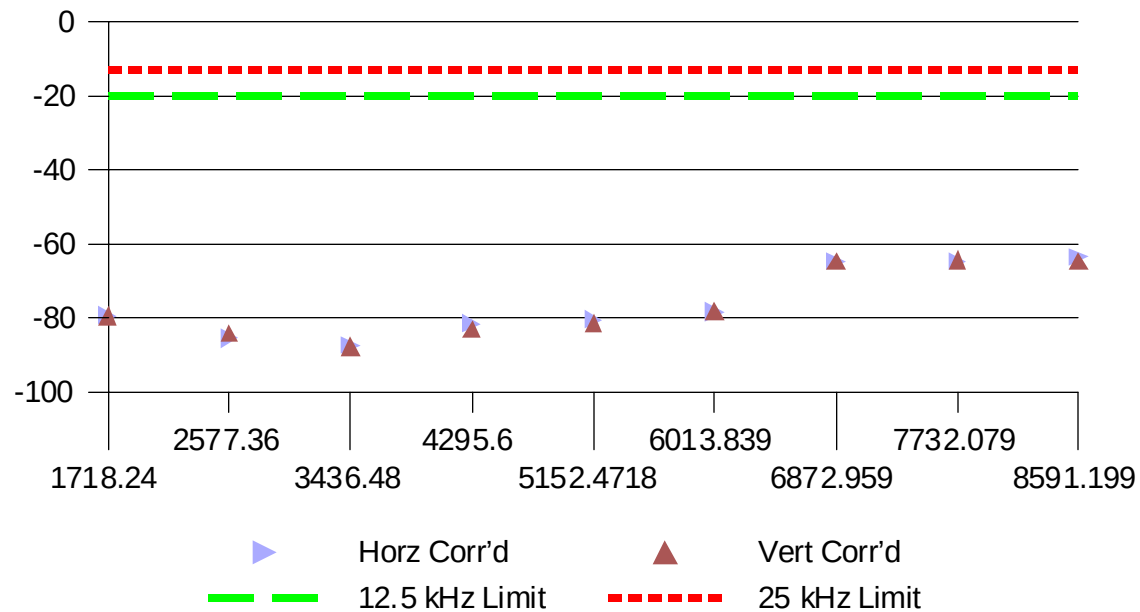


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EMI Datasheet (ITE Devices)

DNB Job Number:	28071	Date:	January 14,2001	Specification [X] FCC Parts: 90, 87, 80, & 74
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Freq	1718.2400	2577.3600	3436.4800	4295.6000	5152.4718	6013.839	6872.959	7732.079	8591.199
Horz Corr'd	-79.16	-85.2	-87.24	-81.32	-80.25	-78.2	-64.64	-64.57	-63.41
Vert Corr'd	-79.36	-83.9	-87.34	-82.92	-81.25	-78.1	-64.44	-64.27	-64.51
12.5 kHz Limit	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0
25 kHz Limit	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0





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EMI Datasheet (ITE Devices)

				Specification [X] FCC Parts: 90, 87, 80, & 74
DNB Job Number:	28071		Date: January 14,2001	
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Transmitter Number	Fundamental Frequency in MHz	Rated Output Power in Watts	Channel Spacing in kHz	Modulation
4	859.125	1	25	FM

	Freq in Mhz	Dipole	H Gain	Horz Mtr	Power	Corr'd	Vert Mtr	Power	Corr'd	Antenna
25	1718.2400	Horn	7.86	12.80	-71.3	-79.16	12.60	-71.5	-79.36	Horn
25	2577.3600	Horn	8.7	13.00	-76.5	-85.2	14.30	-75.2	-83.9	Horn
25	3436.4800	Horn	8.94	11.80	-78.3	-87.24	11.70	-78.4	-87.34	Horn
25	4295.6000	Horn	9.52	13.10	-71.8	-81.32	11.50	-73.4	-82.92	Horn
25	5152.4718	Horn	10.25	12.60	-70.0	-80.25	11.60	-71.0	-81.25	Horn
25	6013.839	Horn	10.5	11.80	-67.7	-78.2	11.90	-67.6	-78.1	Horn
25	6872.959	Horn	10.24	18.50	-54.4	-64.64	18.70	-54.2	-64.44	Horn
25	7732.079	Horn	10.27	17.50	-54.3	-64.57	17.80	-54.0	-64.27	Horn
25	8591.199	Horn	10.91	18.30	-52.5	-63.41	17.20	-53.6	-64.51	Horn

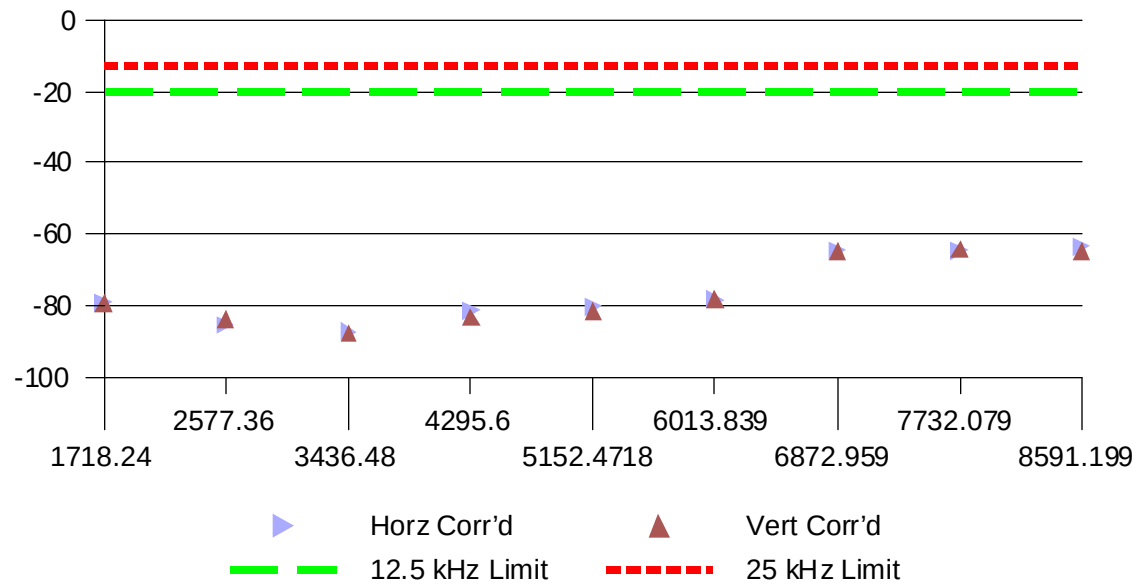


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EMI Datasheet (ITE Devices)

DNB Job Number:	28071	Date:	January 14,2001	Specification [X] FCC Parts: 90, 87, 80, & 74
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Freq	1718.2400	2577.3600	3436.4800	4295.6000	5152.4718	6013.839	6872.959	7732.079	8591.199
Horz Corr'd	-79.16	-85.2	-87.24	-81.32	-80.25	-78.2	-64.64	-64.57	-63.41
Vert Corr'd	-79.36	-83.9	-87.34	-82.92	-81.25	-78.1	-64.4	-64.27	-64.51
12.5 kHz Limit	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0
25 kHz Limit	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0	-13.0





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EMI Datasheet (ITE Devices)

				Specification [X] FCC Parts: 90, 87, 80, & 74
DNB Job Number:	28071		Date: January 14,2001	
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000		Serial Number: N/A	
Description:	Avionics Transceiver			

Transmitter Number	Fundamental Frequency in MHz	Rated Output Power in Watts	Channel Spacing in kHz	Modulation
4	859.125	3	12.5	Digital

	Freq in Mhz	Dipole	H Gain	Horz Mtr	Power	Corr'd	Vert Mtr	Power	Corr'd	Antenna
26	1718.2400	Horn	7.86	12.90	-71.2	-79.06	13.00	-71.1	-78.96	Horn
26	2577.3600	Horn	8.7	11.20	-78.3	-87	11.50	-78.0	-86.7	Horn
26	3436.4800	Horn	8.94	10.60	-79.5	-88.44	10.70	-79.4	-88.34	Horn
26	4295.6000	Horn	9.52	13.30	-71.6	-81.12	11.00	-73.9	-83.42	Horn
26	5152.4718	Horn	10.25	11.30	-71.3	-81.55	12.60	-70.0	-80.25	Horn
26	6013.839	Horn	10.5	19.00	-60.5	-71	18.20	-61.3	-71.8	Horn
26	6872.959	Horn	10.24	18.10	-54.8	-65.04	19.40	-53.5	-63.74	Horn
26	7732.079	Horn	10.27	18.60	-53.2	-63.47	18.10	-53.7	-63.97	Horn
26	8591.199	Horn	10.91	17.80	-53.0	-63.91	17.10	-53.7	-64.61	Horn

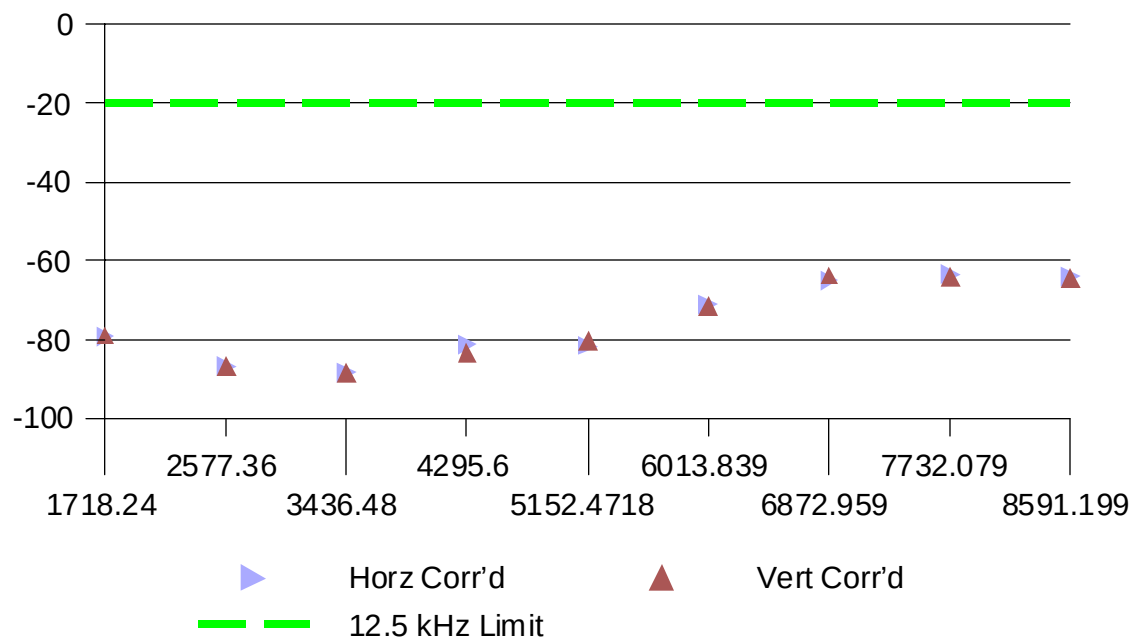


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EMI Datasheet (ITE Devices)

DNB Job Number:	28071	Date:	January 14,2001	Specification [X] FCC Parts: 90, 87, 80, & 74
Customer:	Wulfsberg Electronics Division			
Model Number:	RT5000	Serial Number:	N/A	
Description:	Avionics Transceiver			

Freq	1718.2400	2577.3600	3436.4800	4295.6000	5152.4718	6013.839	6872.959	7732.079	8591.199
Horz Corr'd	-79.06	-87.0	-88.44	-81.12	-81.55	-71.0	-65.04	-63.47	-63.91
Vert Corr'd	-78.96	-86.7	-88.34	-83.42	-80.25	-71.8	-63.74	-63.97	-64.61
12.5 kHz Limit	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0	-20.0





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RV28071

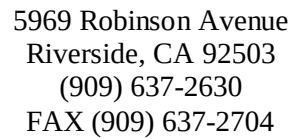
EMI Datasheet (ITE Devices)

DNB Job Number:	RV28071	Date:	January 11, 2002	Specification
Customer:	Wulfsburg Electronics Division			[] FCC Class A
Model Number:	RT 5000	Serial Number:	N/A	[X] FCC Class B
Description:	Avionics Transceivers			[] EN55022 Class A
	Receiver in Transmitter 1,2,3			[] EN55022 Class B

EUT performed within the requirements of the applicable Standard(s) ☒ YES ☐ NO Signed <i>C. L. Payne III</i>															
Bcn = A.H. Systems SAS-200/540 Biconical Antenna S/N 138 (30-200 Mhz) Log = EMCO 3146 Log-Periodic Antenna S/N 1284 (200-1000 Mhz) Dcf = Distance Correction Factor = 20*LOG ₁₀ (Test Distance/Specification Distance) Typ = Type of reading PK = Peak Reading QP = Quasi-peak reading "*" = Readings taken with a res bandwidth of 10KHz do to nearby ambient signal								Cbl = Cable Loss Amp = Preamplifier Gain Pl = Antenna polarity V = Vertical H = Horizontal Hgt = Antenna height in meters x.xx= 1.00 to 4.00 meters Tbl = Table Position in degrees xxx = 000 to 360 degrees							

NOTES:

Freq	Meter	Bcn	Log	Cbl	Amp	Dcf	Corr	Lim dB	Delta	Corr uV	Lim uV	Delta	Typ	Tbl	Pl	Hgt
50.880	27.3	13.0	0.0	1.5	-24.0	0	17.8	40	-22.2	8	100	-92	PK	9	H	1.45
82.5733	32.8	8.4	0.0	1.9	-24.0	0	19.1	40	-20.9	9	100	-91	PK	80	H	2.18
84.414	35.4	8.7	0.0	1.9	-24.0	0	22	40	-18	13	100	-87	PK	215	H	2.66
113.754	31.5	14.1	0.0	2.2	-24.0	0	23.8	43.5	-19.7	15	150	-135	PK	215	H	2.66
115.634	34.3	14.3	0.0	2.2	-24.0	0	26.8	43.5	-16.7	22	150	-128	PK	360	H	2.73
117.440	31.2	14.4	0.0	2.2	-24.0	0	23.8	43.5	-19.7	15	150	-135	PK	360	H	2.05
181.670	27.7	17.5	0.0	2.9	-24.0	0	24.1	43.5	-19.4	16	150	-134	PK	212	H	1.25
185.362	26.7	17.6	0.0	2.96	-24.0	0	23.2	43.5	-20.3	14	150	-136	PK	214	H	1.51
227.552	26.5	0.0	14.2	3.2	-24.0	0	19.9	46	-26.1	10	200	-190	PK	226	H	1.38
229.408	27.8	0.0	14.2	3.2	-24.0	0	21.2	46	-24.8	11	200	-189	PK	226	H	1.38
231.208	33.7	0.0	14.1	3.3	-24.1	0	27	46	-19	22	200	-178	PK	241	H	1.69
51.050	32.0	12.9	0.0	1.5	-24.0	0	22.4	40	-17.6	13	100	-87	PK	354	V	1.48
82.753	36.3	8.4	0.0	1.9	-24.0	0	22.6	40	-17.4	13	100	-87	PK	66	V	1.48
113.934	36.4	14.1	0.0	2.2	-24.0	0	28.7	43.5	-14.8	27	150	-123	PK	14	V	2.13



EMI Datasheet (ITE Devices)

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February 5, 2002
RV28071

EMI Datasheet (ITE Devices)

DNB Job Number:	RV28071	Date:	January 11, 2002	Specification
Customer:	Wulfsburg Electronics Division			[] FCC Class A
Model Number:	RT 5000	Serial Number:	N/A	[X] FCC Class B
Description:	Avionics Transceivers			[] EN55022 Class A
	Receiver in Transmitter 4			[] EN55022 Class B

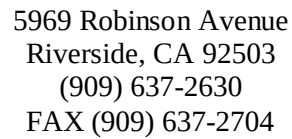
EUT performed within the requirements of the applicable Standard(s)	[X] YES	[] NO	Signed	C. L. Payne III
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Bcn = A.H. Systems SAS-200/540 Biconical Antenna S/N 138 (30-200 Mhz)
Log = EMCO 3146 Log-Periodic Antenna S/N 1284 (200-1000 Mhz)
Dcf = Distance Correction Factor = $20 \cdot \text{LOG}_{10}(\text{Test Distance/Specification Distance})$
Typ = Type of reading PK = Peak reading QP = Quasi-peak reading
"*" = Readings taken with a res bandwidth of 10KHz do to nearby ambient signal

Cbl = Cable Loss
Amp = Preamplifier Gain
Pl = Antenna polarity V = Vertical H = Horizontal
Hgt = Antenna height in meters x.xx= 1.00 to 4.00 meters
Tbl = Table Position in degrees xxx = 000 to 360 degrees

NOTES:

Freq	Meter	Bcn	Log	Cbl	Amp	Dcf	Corr	Lim dB	Delta	Corr uV	Lim uV	Delta	Typ	Tbl	Pl	Hgt
48.604	36.1	13.3	0.0	1.5	-24.0	0	26.9	40	-13.1	22	100	-78	PK	38	H	1.19
49.644	38.8	13.2	0.0	1.5	-24.0	0	29.5	40	-10.5	30	100	-70	PK	38	H	1.19
49.942	38.4	13.1	0.0	1.5	-24.0	0	29	40	-11	28	100	-72	PK	38	H	1.19
80.552	40.1	8.0	0.0	1.8	-24.0	0	25.9	40	-14.1	20	100	-80	PK	38	H	1.19
159.964	31.6	15.3	0.0	2.7	-24.0	0	25.6	43.5	-17.9	19	150	-131	PK	38	H	1.19
222.992	24.8	17.3	0.0	3.2	-24.0	0	21.3	46	-24.7	12	200	-188	PK	38	H	1.19
229.412	28.6	0.0	14.2	3.2	-24.0	0	22	46	-24	13	200	-187	PK	233	H	1.45
231.212	30.6	0.0	14.1	3.3	-24.1	0	23.9	46	-22.1	16	200	-184	PK	233	H	1.45
233.032	25.4	0.0	14.0	3.3	-24.1	0	18.6	46	-27.4	9	200	-191	PK	231	H	1.86
341.032	34.3	0.0	16.8	4.1	-24.4	0	30.8	46	-15.2	35	200	-165	PK	185	H	1.86
49.488	32.9	13.2	0.0	1.5	-24.0	0	23.6	40	-16.4	15	100	-85	PK	63	V	2.10
80.172	31.7	7.9	0.0	1.8	-24.0	0	17.4	40	-22.6	7	100	-93	PK	63	V	2.10
82.580	30.8	8.4	0.0	1.9	-24.0	0	17.1	40	-22.9	7	100	-93	PK	63	V	3.09
159.624	30.6	15.2	0.0	2.7	-24.0	0	24.5	43.5	-19	17	150	-133	PK	63	V	2.62



EMI Datasheet (ITE Devices)

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