

Oct. 10, 2002

Federal Communications Commission
Authorization & Evaluation Division
7435 Oakland Mills Road
Columbia Maryland 21046

Attention: Equipment Authorization Branch

Subject: Type Acceptance FCC ID: OWDTR-0012-E

Members of the Commission or TCB

M/A Com Private Radio Systems Inc. requests a modification Type Acceptance of the OWDTR-0012-E mobile transceiver. The OWDTR-0012-E is a trunking mobile radio that operates in the 806-821/851-866 MHz band with a talkaround mode and in the 821-824/866-869 MHz band with NPSPC and talkaround modes. The OWDTR-0012-E has a maximum power rating of about 35 watts conducted. This radio offers a motorcycle kit option, to support the EME safety compliance we have evaluated SAR at 20 cm and to the uncontrolled exposure limits, instead of MPE per OET guide 65. We found the mobile to be compliant with the uncontrolled exposure limit using the allowable 50% duty cycle for push-to-talk radios. We have also corrected our 2-level emission designator, as it was originally calculated assuming 2 bits (it is only 1 bit) of information per symbol and this was found to be correct for C4FM only. I have attached the emission designator table at the bottom of the page to better explain.

All aspects of the radio are the same as in the original Type Acceptance except for the addition of a band-pass filter after IQ modulator. The model name of the radio has been changed from the Jaguar 700M to 725M any place you see either name assume they are interchangeable.

Modulation	Band MHz	Max. Mod.	Baud(s/s)	Bps	Spacing kHz	Deviation kHz	Carson's Rule B=s/s	Emission Designator
2-level	806-821		9600	9600	25	3	2(B)/2+2DK	15K6F1D 15K6F1E
2-level	821-824		9600	9600	NPSPAC	2.4	2(B)/2+2DK	14K4F1D 14K4F1E
2-level	851-866		9600	9600	25	3	2(B)/2+2DK	15K6F1D 15K6F1E
2-level	866-869		9600	9600	NPSPAC	2.4	2(B)/2+2DK	14K4F1D 14K4F1E
C4FM	806-821		4800	9600	12.5	2.8	2(B)/2+2DK	10K4F1D 10K4F1E
C4FM	821-824		4800	9600	NPSPAC	2.8	2(B)/2+2DK	10K4F1D 10K4F1E
C4FM	851-866		4800	9600	12.5	2.8	2(B)/2+2DK	10K4F1D 10K4F1E
C4FM	866-869		4800	9600	NPSPAC	2.8	2(B)/2+2DK	10K4F1D 10K4F1E
Analog	806-821	3	N/a	N/a	25 kHz	5	2M+2DK	16K0F3E
Analog	821-824	3	N/a	N/a	NPSPAC	4	2M+2DK	14K0F3E
Analog	851-866	3	N/a	N/a	25kHz	5	2M+2DK	16K0F3E
Analog	866-869	3	N/a	N/a	NPSPAC	4	2M+2DK	14K0F3E

Regards,

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