

2 June, 2000

FAA Spectrum Engineering Division
800 Independence Avenue SW
Washington,
DC 20591

Dear Sirs,

Please be advised that we are making an application to the Federal Communications Commission to obtain an Equipment Authorisation Grant for Park Air Electronics VHF mobile radio type T6M model number BT6M.

The equipment provides 8W RF output power in the 118 – 136.975 MHz band employing A3E (AM) modulation. A summary of the equipment's performance is attached.

Yours faithfully,

Allan Horsfield
Principal Engineer
EMC and Approvals

Attachments:

Sales leaflet.

FAA Notification of FCC Type Acceptance Application for PAE B6350.

General

FCC Number	C8LBT6M
Manufacturer	Park Air Electronics Ltd. England.
Type	T6M VHF mobile transceiver
Model Number	BT6M
RF Output Power	8 Watts
Antenna port	50R BNC connector
Frequency range	118 MHz to 136.975 MHz.
Method of tuning	Pre programmed frequencies selected by front panel controls.
Channelling capability	25 kHz and 8.33kHz.
Emission bandwidth	Within FCC limits see attached report summary
Emission type	6K0A3EJN
Emission/harmonics	See attached report summary

Description

The Park Air Electronics (PAE) mobile transceiver Type T6M is a multi-channel VHF AM equipment operating in the frequency range 118 to 137 MHz with a bandwidth of 8.33 or 25 kHz. The transceiver is designed for vehicle mounting via a bracket, usually around the dash board area. The equipment, which operates from a +13.2 volt, is supplied with mounting bracket and plug in microphone.

The transceiver provides a nominal 8 watt output.

The required frequencies, priority frequencies and scan facilities are normally programmed, to the user's requirements, during manufacture or by the equipment supplier. If a user wishes to programme the equipment, then disk based programming software and a programming lead can be supplied by PAE.

PAE BT6M VHF transmitter emission performance summary:

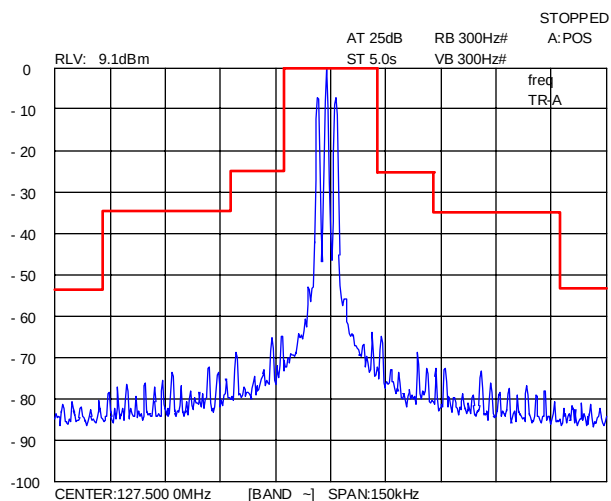
All results taken from report number CTMS 2000/1301a produced by Cambridge Test and Measurement Services and submitted to the FCC supporting our application for Grant of Equipment Authorisation.

Occupied Bandwidth - 47 CFR 2.1049 (1)

Occupied Bandwidth

Rules Parts 2.1049 and 87.139

Mask showing compliance with 25 kHz channel spacing



Results in accordance with Part 2.1051 and 87.139 Emission Limits

Note: Emissions 20dB below limit are not required to be listed

Carrier Frequency (Fc) : 127.5 MHz

		Absolute Level	Level (relative to RF Power 8W) dB w.r.t limit of 43+10 log power	
Frequency (MHz)	Identity	dBm limit - 13	dBc limit - 52	Remarks
127.398	Spurious	- 35.7	- 74.7	All others >
127.603	Spurious	- 39.2	- 78.2	20 dB within
255.000	2fc	- 47.5	- 86.5	Specification
382.500	3fc	- 53.7	- 92.7	Limit.

* FCC Registration Number 93395

Results in accordance with Part 2.1053 and 87.139 Emission Limits

Notes: 1 Emissions 20dB below limit are not required to be listed
 2 Following a pre-scan below 30MHz, no emissions detected greater than 20dB
 above specification limits

Carrier Frequency (Fc) : 127.5 MHz

Frequency (MHz)	Identity	Absolute Level dBm limit - 13	Level (relative to RF Power 8W) dB w.r.t limit of 43+10 log power	
			limit -52 dBc	Remarks
176.94	Spurious	- 63.2	- 102.2	All greater than 20dB
255.60	Spurious	- 65.0	- 104.0	within Specification Limit.