



FCC ID: ABZ99FT4052

Date: June 29, 2000

Authorization and Evaluation Division
Federal Communication Laboratory
7435 Oakland Mills Road
Columbia, MD 21046

Att: Linda Elliott or Joe Dichoso

Subject: Class II Permissive Change request for Type Accepted Transmitter
with FCC ID: ABZ99FT4052

We are requesting a Class II Permissive Change to the above referenced transmitter. The final stage (Q104) of the transmitter RF power amplifier has been replaced with a new active device.

The changes include:

- Q104 device replacement from LDMOS FET MRF1507 transistor to LDMOS FET MRF1517 transistor
- Bias resistor value change for proper transistor biasing (R114)

All other parameters of the radio are unchanged. There are no added options, changes in rated power, or customer perceived changes. The radio, after the change, will be subject to all the same specifications and regulation of the radios prior to the change. Note: the MRF1507 and MRF1517 are PLD1.5 surface mount packages with the same pin out.

Reason for Change:

The reason for the change from the MRF1507 to the MRF1517 LDMOS FET transistor is the vendor of the MRF1507 has cancelled the product. The MRF1517 was given as the closest drop in replacement for the MRF1507.

General Information:

LDMOS FET MRF1507 Transistor specifications:

- 8.0 Watt transistor
- 7.5 Vdc Source
- 520 Mhz
- 10 dB Gain
- 65 % efficiency
- PLD-1.5 SMT package

LDMOS FET MRF1517 Transistor specifications:



MOTOROLA

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- 8.0 Watt transistor
- 7.5 Vdc Source
- 520 Mhz
- 11 dB Gain
- 55 % efficiency
- PLD-1.5 SMT package

Supplied Data:

The data supplied with this permissive change request consist of data that was affected by the change to the LDMOS FET device. Please refer to the enclosed Exhibit 1.

Contact Bill Hiner at (319) 385-9271 if you require any additional information.

Sincerely,

Donna Tokarz.
FCC Liaison
Fax (847)576-7245