

FUJITSU

**INTERNALLY MATCHED
GaAs POWER FETs**

**FLM SERIES
C-BAND**

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FEATURES

- Class-A Operation
- Internally Matched Input and Output
- High Power
- High Gain
- Broad Bandwidth
- Hermetically Sealed Metal-wall Package
- Space Qualified Parts Available

Case Style IB



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The FLM series microwave FETs offer high power output and high gain over standard communication bands in the 3.7 to 8.5 GHz frequency range. Specially designed input and output circuits are optimized for each frequency band, for power output, gain and stability. Only a 50 ohm circuit is required to obtain specified performance from the FLM series (performance guaranteed for $Z_S, Z_L = 50$ ohms). Improved passivation, Plated Heat Sink technology, hermetic packaging and Fujitsu's stringent Quality Assurance and test procedures all assure the highest reliability and performance.

SELECTION TABLE

Type No.	Frequency Range	P_{1dB} (typ.)	G_{1dB} (typ.)
FLM3742-4B	3.7 – 4.2 GHz	36 dBm	10 dB
FLM3742-8B	3.7 – 4.2 GHz	39 dBm	9 dB
FLM3742-14	3.7 – 4.2 GHz	42.5 dBm	9 dB
FLM4450-4B	4.4 – 5.0 GHz	36 dBm	9 dB
FLM4450-8B	4.4 – 5.0 GHz	39 dBm	8 dB
FLM4450-14	4.4 – 5.0 GHz	42.5 dBm	8 dB
FLM5359-4B	5.3 – 5.9 GHz	36 dBm	8.5 dB
FLM5359-8B	5.3 – 5.9 GHz	39 dBm	7.5 dB
FLM5359-14	5.3 – 5.9 GHz	42.5 dBm	7.5 dB
FLM5964-4C	5.9 – 6.4 GHz	36 dBm	9 dB
FLM5964-8C	5.9 – 6.4 GHz	39 dBm	8 dB
FLM5964-14	5.9 – 6.4 GHz	42.5 dBm	7 dB
FLM6472-4C	6.4 – 7.2 GHz	36 dBm	8 dB
FLM6472-8C	6.4 – 7.2 GHz	39 dBm	7 dB
FLM6472-14	6.4 – 7.2 GHz	42.5 dBm	6.5 dB
FLM7177-4C	7.1 – 7.7 GHz	36 dBm	8 dB
FLM7177-8C	7.1 – 7.7 GHz	39 dBm	7 dB
FLM7785-4C	7.7 – 8.5 GHz	36 dBm	7 dB
FLM7785-8C	7.7 – 8.5 GHz	39 dBm	6 dB

Type No.	Frequency Range	IM_3 (typ.)	P_{1dB} (typ.)	G_{1dB} (typ.)
FLM3742-4D	3.7 – 4.2 GHz	-45 dBc(1)	36 dBm	9.5 dB
FLM3742-8D	3.7 – 4.2 GHz	-45 dBc(2)	39 dBm	8.5 dB
FLM3742-14D	3.7 – 4.2 GHz	-45 dBc(3)	42.5 dBm	9 dB
FLM5964-4D	5.9 – 6.4 GHz	-45 dBc(1)	36 dBm	8.5 dB
FLM5964-8D	5.9 – 6.4 GHz	-45 dBc(2)	39 dBm	7.5 dB
FLM5964-14D	5.9 – 6.4 GHz	-45 dBc(3)	42.5 dBm	7 dB
FLM6472-4D	6.4 – 7.2 GHz	-45 dBc(1)	36 dBm	7.5 dB
FLM6472-8D	6.4 – 7.2 GHz	-45 dBc(2)	39 dBm	6.5 dB
FLM6472-14D	6.4 – 7.2 GHz	-45 dBc(3)	42.5 dBm	6.5 dB

- Notes 1 2-Tone Test $P_{out} = 25$ dBm Single Carrier Level
 2 2-Tone Test $P_{out} = 28$ dBm Single Carrier Level
 3 2-Tone Test $P_{out} = 31.5$ dBm Single Carrier Level

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