FMM106HG GaAs MMIC

FEATURES

- Operation to 6.5 GHz
- Divided by 8, OUT and OUT Outputs
- External 50 ohm Load Driving Capability
- -5V DC or +5V DC Single Power Supply
- Metal/Ceramic 14-pin Hermetic Flat Package
- Wide Operation Temperature -55°C to +85°C

DESCRIPTION

The FMM106HG is a GaAs Microwave Frequency Divider that has been designed to divide an input signal by 8 over a frequency range from 2.0 to 6.5 GHz. The FMM106HG is designed for Microwave Frequency Synthesizer and Phase-Locked Oscillator applications.

Fujitsu's stringent Quality Assurance Program assures the highest reliability and consistent performance.

ABSOLUTE MAXIMUM RATINGS (Ambient Temperature Ta=25°C)

Parameter	Symbol	Ratings	Unit
Supply Voltage	V _{SS}	-7.0 to 0	V
Input Voltage	V _{in}	V _{SS} to 0	V
Input Power	P _{in}	+13.0	dBm
Storage Temperature	T _{stg}	-55 to +150	°C
Power Dissipation	PD	1.0	W

RECOMMENDED OPERATING CONDITIONS

	0 milest	Limit			11
Parameter	Symbol	Min.	Тур.	Max.	Unit
Supply Voltage	V _{SS}	-5.5	-5.0	-4.5	V
Ambient Temperature	Та	-55	-	+85	°C

ABSOLUTE MAXIMUM RATINGS (Ambient Temperature Ta=25°C)

Parameter	Symbol	Ratings	Unit
Supply Voltage	V _{SS}	-7.0 to 0	V
Input Voltage	V _{in}	V _{SS} to 0	V
Input Power	P _{in}	+13.0	dBm
Storage Temperature	T _{stg}	-55 to +150	°C







Test Circuit





The backside metal of the package must be grounded.



FUJITSU



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CAUTION

Fujitsu Compound Semiconductor Products contain **gallium arsenide (GaAs)** which can be hazardous to the human body and the environment. For safety, observe the following procedures:

- Do not put these products into the mouth.
- Do not alter the form of this product into a gas, powder, or liquid through burning, crushing, or chemical processing as these by-products are dangerous to the human body if inhaled, ingested, or swallowed.
- Observe government laws and company regulations when discarding this product. This product must be discarded in accordance with methods specified by applicable hazardous waste procedures.

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