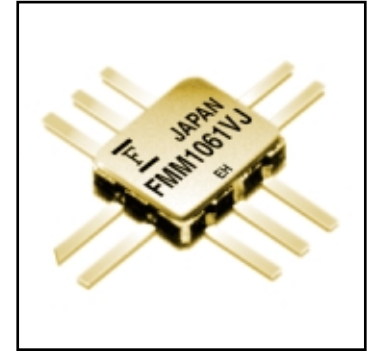


### FEATURES

- Operation to 6.0 GHz
- Input Frequency divide by 4, OUT and  $\overline{\text{OUT}}$
- -5V (or+5V) DC Single Power Supply
- External 50 ohm Load Driving Capability
- Small 10 pin Hermetic SMT-10 Package (VJ)
- Tape and Reel available



### DESCRIPTION

The FMM1061VJ is a GaAs Microwave Static Frequency Divider designed for dividing an input signal by 4 over a frequency range from 2.0 to 6.0 GHz. This part 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 <sub>SS</sub>	-7.0 to 0	V
Input Voltage	V <sub>in</sub>	V <sub>SS</sub> to 0	V
Input Power	P <sub>in</sub>	+13.0	dBm
Storage Temperature	T <sub>stg</sub>	-55 to +125	°C
Power Dissipation	P <sub>D</sub>	1.0	W

### RECOMMENDED OPERATING CONDITIONS

Parameter	Symbol	Limit			Unit
		Min.	Typ.	Max.	
Supply Voltage	V <sub>SS</sub>	-5.5	-5.0	-4.5	V
Ambient Temperature	T <sub>a</sub>	-30	-	+70	°C

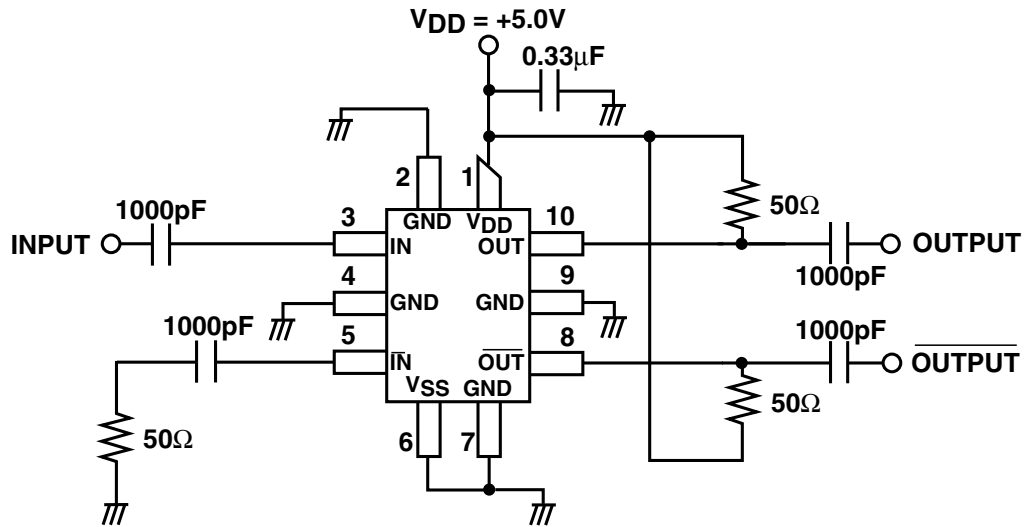
### ELECTRICAL CHARACTERISTICS (Ambient Temperature Ta = 25°C, V<sub>SS</sub> = -5.0V)

Parameter	Symbol	Condition	Limit			Unit
			Min.	Typ.	Max.	
Power Supply Current	I <sub>SS</sub>		-	100	-	mA
Operating Frequency	f <sub>in</sub>	P <sub>in</sub> = 0~10dBm	2.0	-	6.0	GHz
Output Power	P <sub>o</sub>		0	4	-	dBm

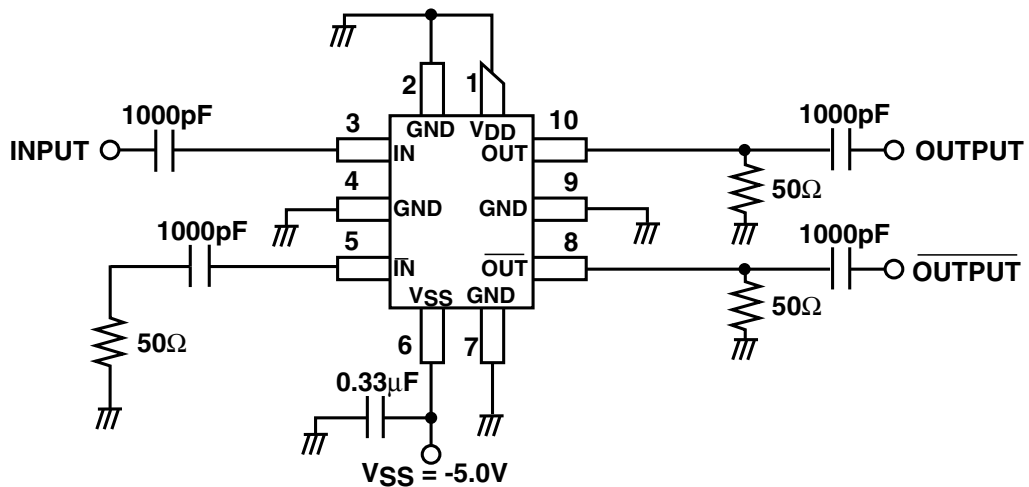
CASE STYLE: VJ

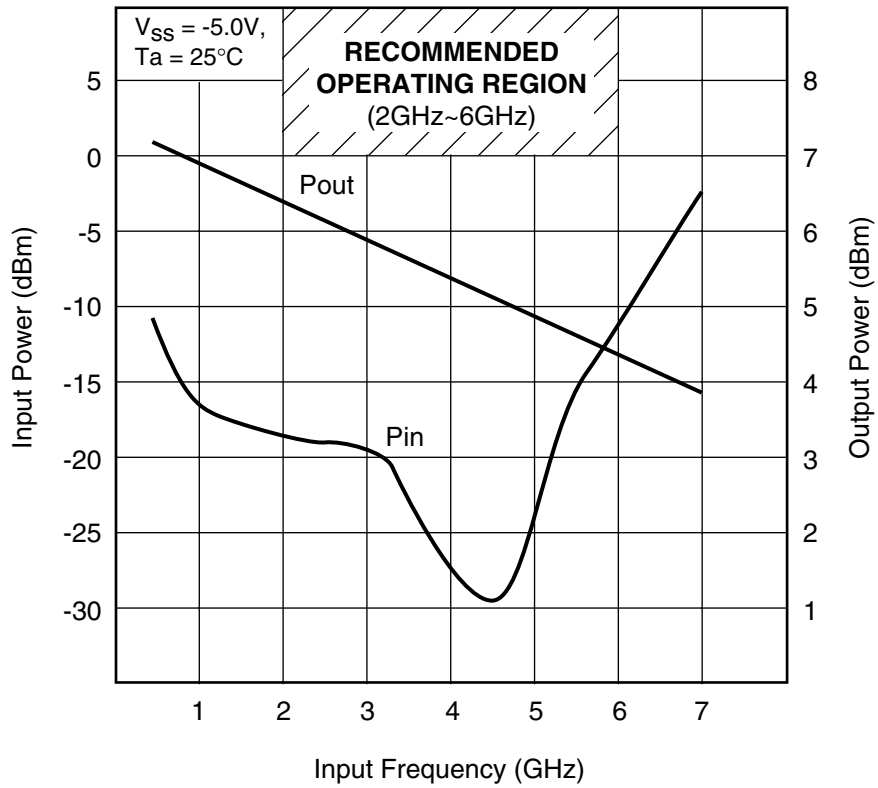
### Test Circuit

#### Positive Supply Voltage VDD = +5V Operation Circuit



#### Negative Supply Voltage VSS = -5V Operation Circuit

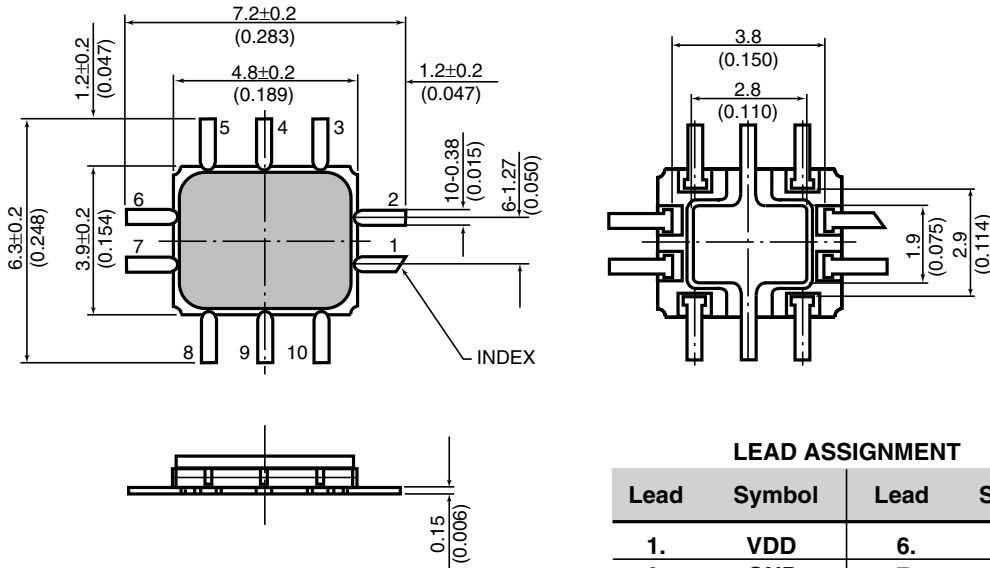


**INPUT SENSITIVITY CHARACTERISTICS**

# FMM1061VJ

GaAs MMIC

## Case Style "VJ"



### LEAD ASSIGNMENT

Lead	Symbol	Lead	Symbol
1.	VDD	6.	Vss
2.	GND	7.	GND
3.	IN	8.	OUT
4.	GND	9.	GND
5.	IN	10.	OUT

Unit: mm(inches)

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- 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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