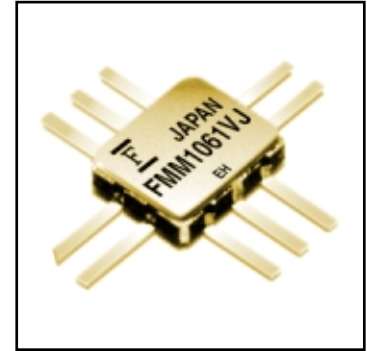


FEATURES

- 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 _{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 +125	°C
Power Dissipation	P _D	1.0	W

RECOMMENDED OPERATING CONDITIONS

Parameter	Symbol	Limit			Unit
		Min.	Typ.	Max.	
Supply Voltage	V _{SS}	-5.5	-5.0	-4.5	V
Ambient Temperature	T _a	-30	-	+70	°C

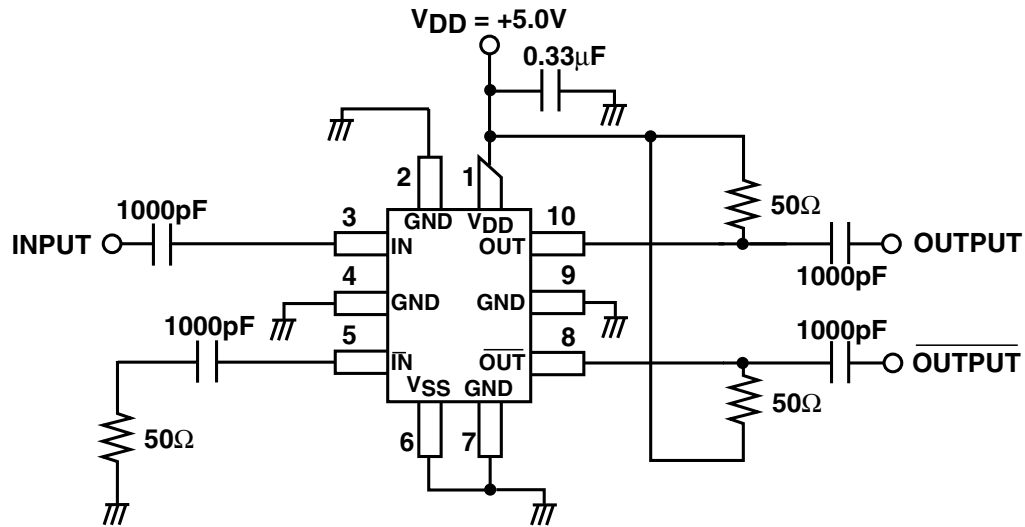
ELECTRICAL CHARACTERISTICS (Ambient Temperature Ta = 25°C, V_{SS} = -5.0V)

Parameter	Symbol	Condition	Limit			Unit
			Min.	Typ.	Max.	
Power Supply Current	I _{SS}		-	100	-	mA
Operating Frequency	f _{in}	P _{in} = 0~10dBm	2.0	-	6.0	GHz
Output Power	P _o		0	4	-	dBm

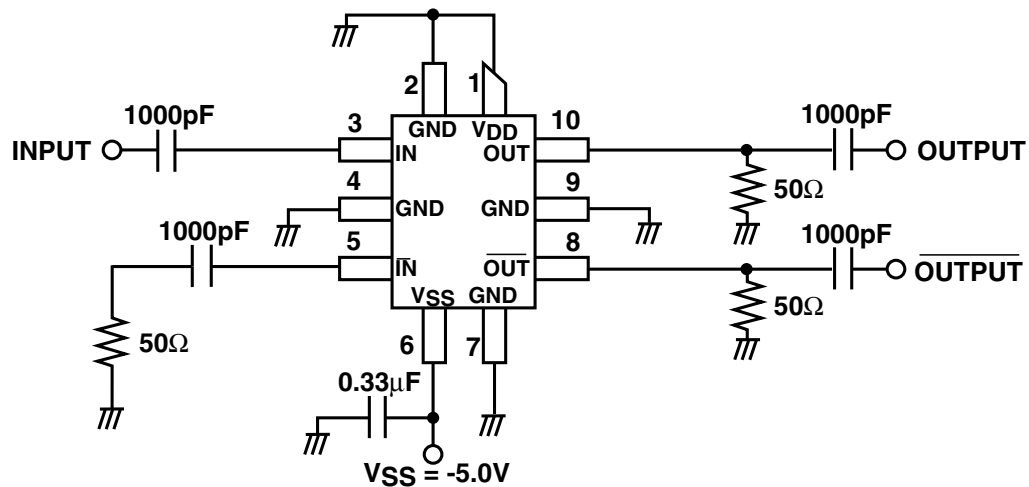
CASE STYLE: VJ

Test Circuit

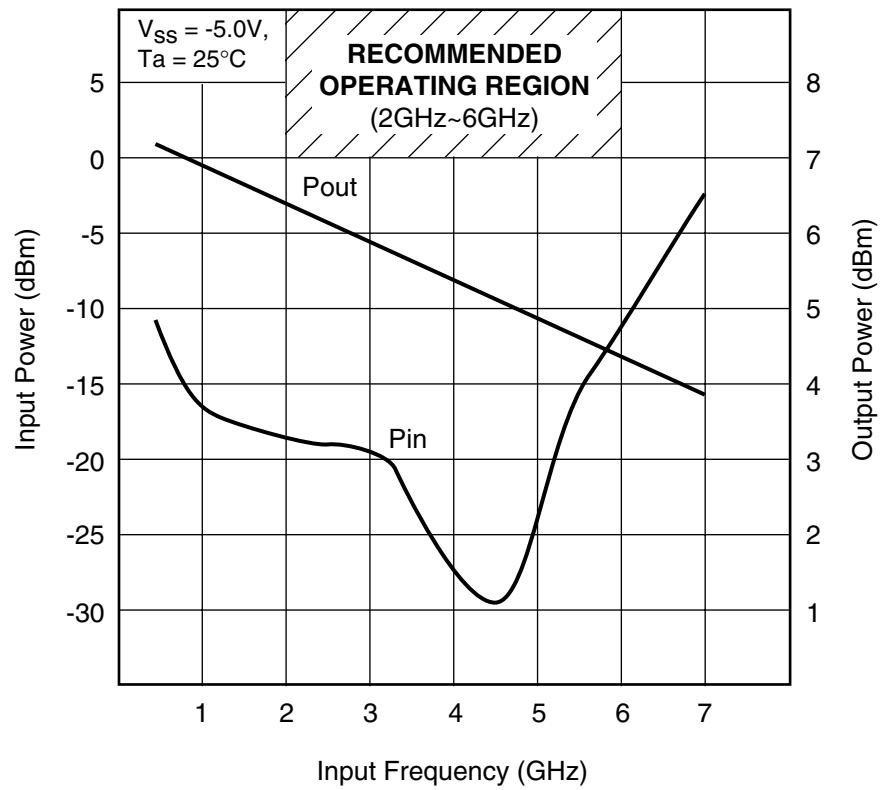
Positive Supply Voltage VDD = +5V Operation Circuit



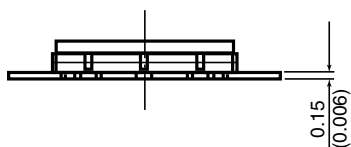
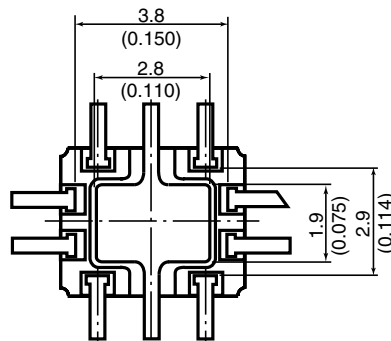
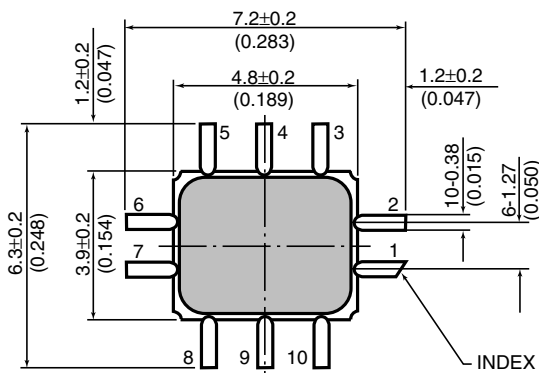
Negative Supply Voltage VSS = -5V Operation Circuit



INPUT SENSITIVITY CHARACTERISTICS



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.
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