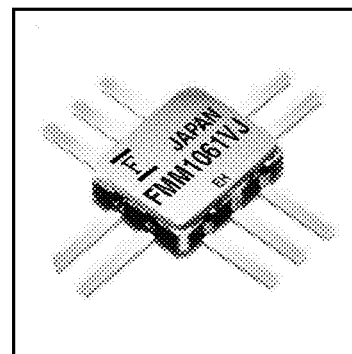


FEATURES

- 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

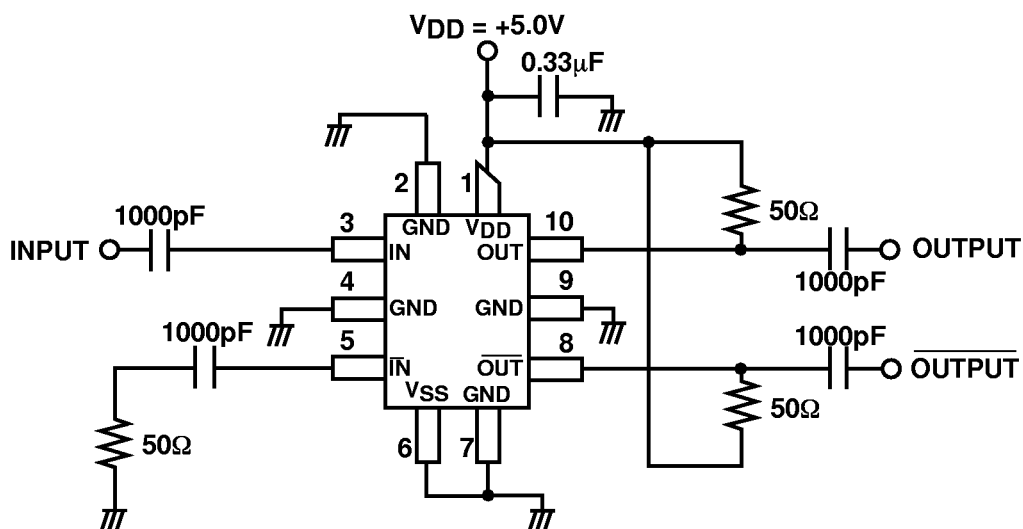
ELECTRICAL CHARACTERISTICS (Ambient Temperature Ta = 25°C, Vss = -5.0V)

Parameter	Symbol	Condition	Limit			Unit
			Min.	Typ.	Max.	
Power Supply Current	I_{SS}		-	100	-	mA
Operating Frequency	f_{in}	$P_{in} = 0 \sim 10 \text{ dBm}$	2.0	-	6.0	GHz
Output Power	P_o		0	4	-	dBm

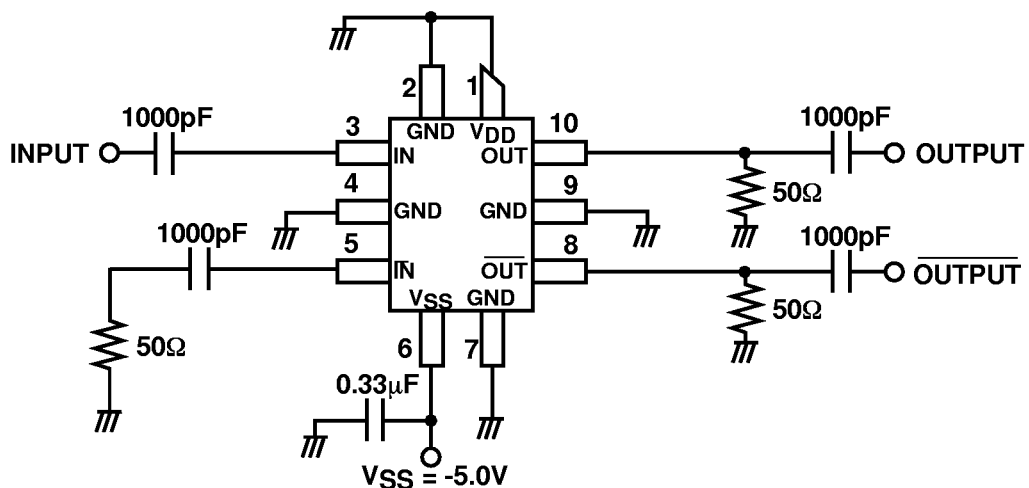
CASE STYLE: VJ

Test Circuit

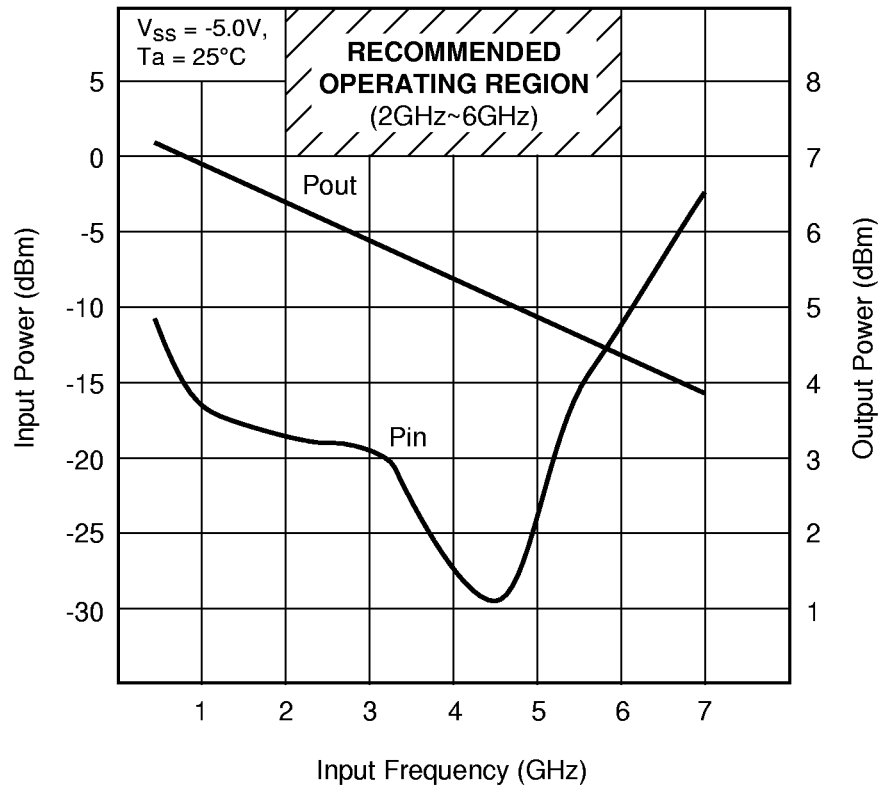
Positive Supply Voltage VDD = +5V Operation Circuit



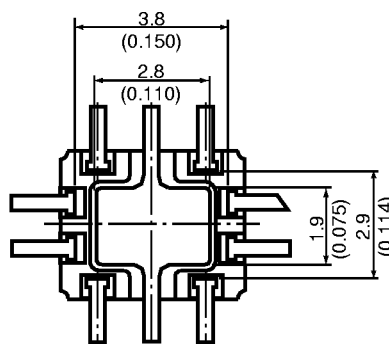
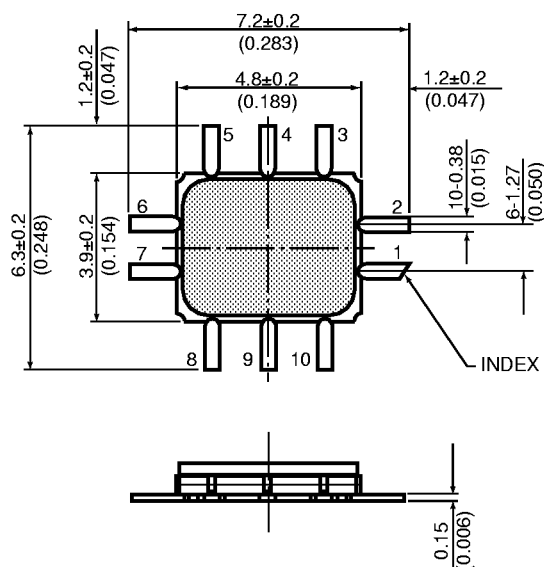
Negative Supply Voltage VSS = -5V Operation Circuit



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)

For further information please contact:

FUJITSU COMPOUND SEMICONDUCTOR, INC.

2355 Zanker Rd.

San Jose, CA 95131-1138, U.S.A.

Phone: (408) 232-9500

FAX: (408) 428-9111

www.fcsi.fujitsu.com

FUJITSU MICROELECTRONICS, LTD.

Compound Semiconductor Division

Network House

Norreys Drive

Maidenhead, Berkshire SL6 4FJ

Phone: +44 (0)1628 504800

FAX: +44 (0)1628 504888

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- 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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