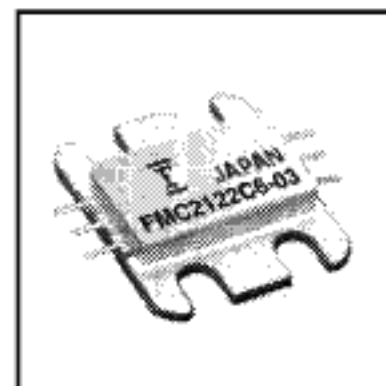


FEATURES

- High Output Power: $P_{1dB} = 18dBm$ (Typ.)
- High Gain: $G_{1dB} = 13dB$ (Typ.)
- Low In/Out VSWR
- Broad Band: 21.2 ~ 22.4GHz
- Impedance Matched $Z_{in}/Z_{out} = 50\Omega$
- Hermetically Sealed Package (12 X 15 X 3.5mm)



DESCRIPTION

The FMC2122C6-03 is a module that contains a two-stage amplifier, internally matched, for standard communications in the 21.2 to 22.4GHz frequency range. This product is well suited for point-to-point radio applications as it offers high power, high gain, and low VSWR.

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

ABSOLUTE MAXIMUM RATINGS (Ambient Temperature $T_a = 25^\circ C$)

Parameter	Symbol	Rating	Unit
DC Input Voltage	V_{DD}	10	V
DC Input Voltage	V_{GG}	-7	V
Input Power	P_{in}	8.5	dBm
Storage Temperature	T_{stg}	-55 to +125	$^\circ C$
Operating Case Temperature	T_{op}	-55 to +85	$^\circ C$

Fujitsu recommends the following conditions for the reliable operation of GaAs modules:

1. The drain operating voltage (V_{DD}) should not exceed 8 volts.
2. The gate operating voltage (V_{GG}) should not exceed -5 volts.

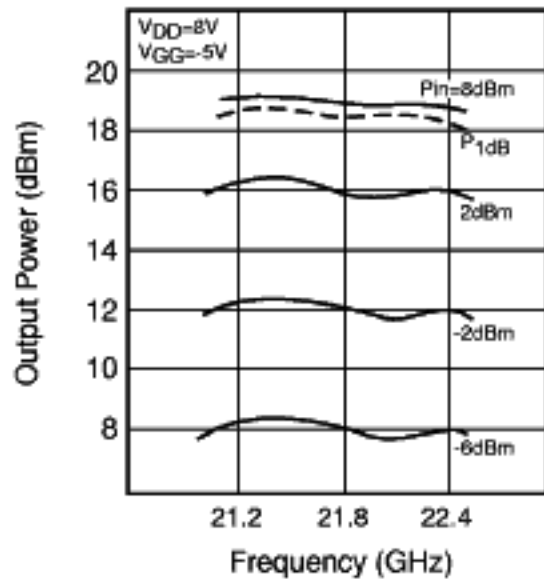
ELECTRICAL CHARACTERISTICS (Case Temperature $T_c = 25^\circ C$)

Item	Symbol	Test Conditions	Limit			Unit
			Min.	Typ.	Max.	
Frequency Range	f		21.2 ~ 22.4			GHz
Output Power at 1dB G.C.P.	P_{1dB}	$V_{DD} = 8V$ $V_{GG} = -5V$	16.5	18.0	-	dBm
Power Gain at 1 dB G.C.P.	G_{1dB}	f = 21.2 ~ 22.4 GHz	11.0	13.0	16.0	dB
Gain Flatness	ΔG	$V_{DD} = 8V$ $V_{GG} = -5V$	-	1.0	2.0	dB
Input VSWR	VSWR _i	$P_{in} = -5dBm$	-	2.5:1	3.0:1	-
Output VSWR	VSWR _o	f = 21.2 ~ 22.4GHz	-	3.0:1	4.0:1	-
DC Input Current	I_D	$V_{DD} = 8V$	-	70	100	mA
DC Input Current	I_G	$V_{GG} = -5V$	-	10	15	mA

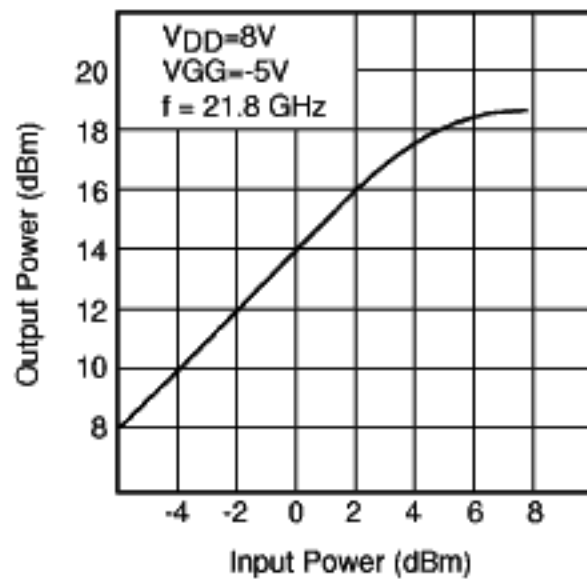
CASE STYLE: GJ

G.C.P.: Gain Compression Point

OUTPUT POWER vs. FREQUENCY

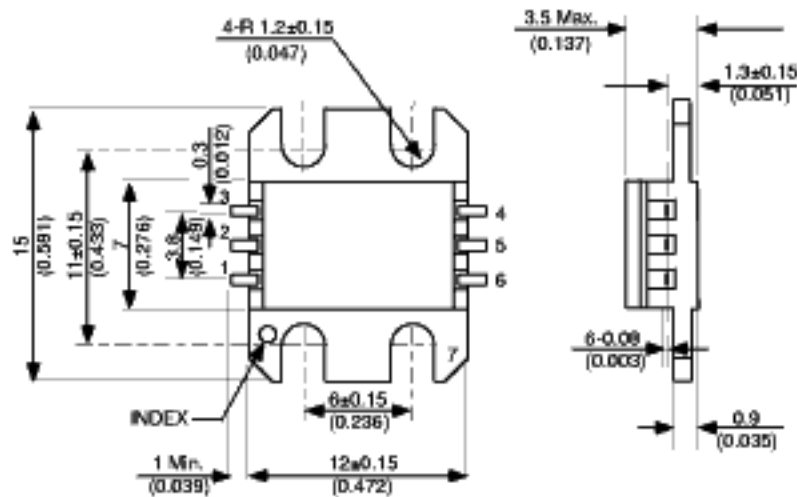


OUTPUT POWER vs. INPUT POWER



2

Case Style "GJ"
Metal-Ceramic Hermetic Package



- 1. V_{DD}
 - 2. RF_{in}
 - 3. V_{GG}
 - 4. V_{GG}
 - 5. RF_{out}
 - 6. V_{DD}
 - 7. GND (Body)
- Unit: mm (inches)