

### ABSOLUTE MAXIMUM RATINGS (Ambient Temperature $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Rating	Unit
DC Input Voltage	$V_{DD}$	10	V
DC Input Voltage	$V_{GG}$	-7	V
Input Power	$P_{in}$	3	dBm
Storage Temperature	$T_{stg}$	-55 to +125	$^\circ\text{C}$
Operating Case Temperature	$T_{op}$	-55 to +85	$^\circ\text{C}$

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 $T_c = 25^\circ\text{C}$ )

Item	Symbol	Test Conditions	Limit			Unit
			Min.	Typ.	Max.	
Frequency Range	f		21.2 ~ 22.4			GHz
Output Power at 1dB G.C.P.	$P_{1dB}$	$V_{DD} = 8V$ $V_{GG} = -5V$ $f = 21.2 \sim 22.4 \text{ GHz}$	11.0	12.0	-	dBm
Power Gain at 1 dB G.C.P.	$G_{1dB}$		11.0	12.0	-	dB
Noise Figure	NF		-	3.0	4.0	dB
Gain Flatness	$\Delta G$	$V_{DD} = 8V$ $V_{GG} = -5V$ $P_{in} = -15\text{dBm}$ $f = 21.2 \sim 22.4\text{GHz}$	-	1.0	-	dB
Input VSWR	VSWR <sub>i</sub>		-	3.0:1	-	-
Output VSWR	VSWR <sub>o</sub>		-	2.5:1	-	-
DC Input Current	$I_D$	$V_{DD} = 8V$ $V_{GG} = -5V$	-	40	70	mA
DC Input Current	$I_G$		-	10	15	mA

CASE STYLE: GJ

G.C.P.: Gain Compression Point

### GAIN & NF vs. FREQUENCY

