

FMC2223C6-03

Ku, K-Band Power GaAs Modules

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}	8.5	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.

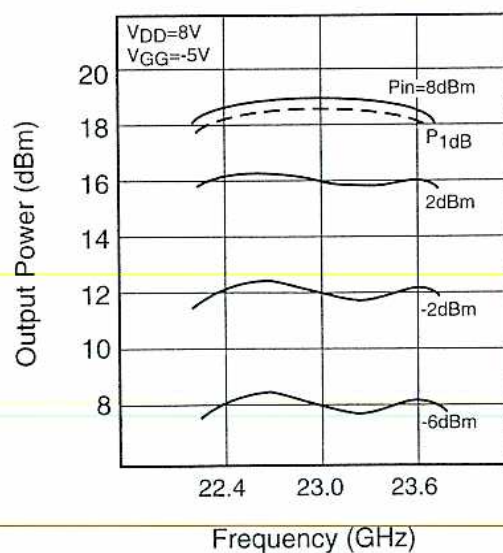
ELECTRICAL CHARACTERISTICS (Case Temperature $T_c = 25^\circ\text{C}$)

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}	$V_{DD} = 8V$ $V_{GG} = -5V$ $f = 21.2 \sim 22.4 \text{ GHz}$	16.5	18.0	-	dBm
Power Gain at 1 dB G.C.P.	G_{1dB}		11.0	13.0	16.0	dB
Gain Flatness	ΔG	$V_{DD} = 8V$ $V_{GG} = -5V$ $P_{in} = -5\text{dBm}$ $f = 21.2 \sim 22.4\text{GHz}$	-	1.0	2.0	dB
Input VSWR	$VSWR_i$		-	2.5:1	3.0:1	-
Output VSWR	$VSWR_o$		-	3.0:1	4.0:1	-
DC Input Current	I_D	$V_{DD} = 8V$ $V_{GG} = -5V$	-	70	100	mA
DC Input Current	I_G		-	10	15	mA

CASE STYLE: GJ

G.C.P.: Gain Compression Point

OUTPUT POWER vs. FREQUENCY



OUTPUT POWER vs. INPUT POWER

