

FMC1414P1-02

Ku, K-Band Power GaAs Modules

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

Item	Symbol	Rating	Unit
DC Input Voltage	V_{DD}	12	V
Input Power	P_{in}	5	dBm
Storage Temperature	T_{stg}	-55 to +125	$^\circ\text{C}$
Operating Case Temperature	T_{op}	-40 to +70	$^\circ\text{C}$

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

1. The drain operating voltage (V_{DD}) should not exceed 10 volts.

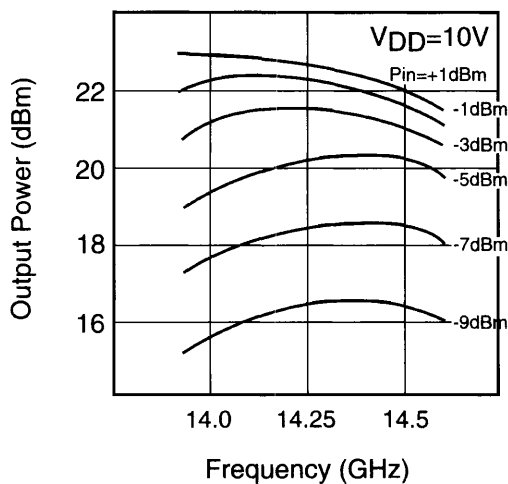
ELECTRICAL CHARACTERISTICS (Case Temperature $T_c = 25^\circ\text{C}$)

Item	Symbol	Test Conditions	Limit			Unit
			Min.	Typ.	Max.	
Frequency Range	f		14.0 ~ 14.5			GHz
Output Power at 1dB G.C.P.	P_{1dB}	$V_{DD} = 10\text{V}$ $f = 14.0 \sim 14.5 \text{ GHz}$	19.0	21.0	-	dBm
Linear Gain	G_L		22.0	25.0	-	dB
Noise Figure	NF		-	5.0	-	dB
Gain Flatness	ΔG	$V_{DD} = 10\text{V}$ $P_{in} = -15\text{dBm}$ $f = 14.0 \sim 14.5 \text{ GHz}$	-	1.0	1.5	dB
Input VSWR	VSWR _i		-	1.7:1	2.0:1	-
Output VSWR	VSWR _o		-	2.0:1	2.3:1	-
DC Input Current	I_D	$V_{DD} = 10\text{V}$	-	150	200	mA

CASE STYLE: GA

G.C.P.: Gain Compression Point

OUTPUT POWER vs. FREQUENCY



OUTPUT POWER vs. INPUT POWER

