

ABSOLUTE MAXIMUM RATINGS (Ambient Temperature Ta = 25°C)

Parameter	Symbol	Rating	Unit
DC Input Voltage	VDD	10	V
DC Input Voltage	VGG	-7	V
Input Power	Pin	-1.5	dBm
Storage Temperature	Tstg	-55 to +125	°C
Operating Case Temperature	Top	-55 to +85	°C

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

1. The drain operating voltage (VDD) should not exceed 8 volts.
2. The gate operating voltage (VGG) should not exceed -5 volts.

ELECTRICAL CHARACTERISTICS (Case Temperature Tc = 25°C)

Item	Symbol	Test Conditions	Limit			Unit
			Min.	Typ.	Max.	
Frequency Range	f	18.7 ~ 19.7				GHz
Output Power at 1dB G.C.P.	P1dB	VDD = 8V VGG = -5V f = 18.7 ~ 19.7 GHz	11.0	12.0	-	dBm
Power Gain at 1 dB G.C.P.	G1dB		12.5	13.5	-	dB
Noise Figure	NF		-	2.5	3.5	dB
Gain Flatness	ΔG	VDD = 8V VGG = -5V Pin = -15dBm f = 18.7 ~ 19.7GHz	-	1.0	-	dB
Input VSWR	VSWRi		-	3.0:1	-	-
Output VSWR	VSWRo		-	2.5:1	-	-
DC Input Current	Id	VDD = 8V VGG = -5V	-	40	70	mA
DC Input Current	IG		-	10	15	mA

CASE STYLE: GJ

G.C.P.: Gain Compression Point

GAIN & NF vs. FREQUENCY

