

# PF0120 查询PF0120供应商

捷多邦, 专业PCB打样工 **Product Preview**

MOS FET Power Amplifier Module for GSM Mobile Phone

**加急出货**

For GSM CLASS 2 890~915 MHz

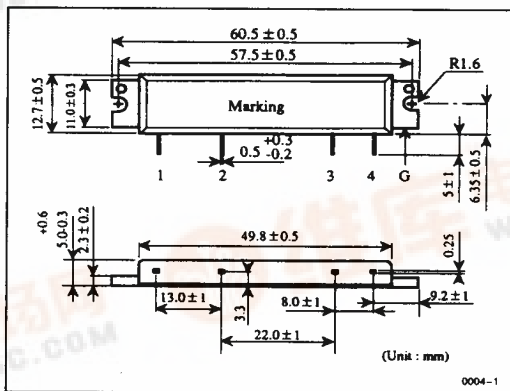
## ■ OUTLINE DRAWING

### ■ FEATURES

- Low Power Control Current ..... 1 mA
- High Speed Switching ..... 1  $\mu$ s
- Wide Power Control Range ..... 90 dB typ.

### ■ ABSOLUTE MAXIMUM RATINGS (T<sub>C</sub> = 25°C)

Parameter	Symbol	Value	Unit
Supply Voltage	V <sub>DD</sub>	17	V
Supply Current	I <sub>DD</sub>	4	A
APC Voltage	V <sub>APC</sub>	8	V
Input Power	P <sub>in</sub>	20	mW
Operating Case Temperature	T <sub>C</sub> (op)	- 30 ~ + 110	°C
Storage Temperature	T <sub>stg</sub>	- 40 ~ + 100	°C

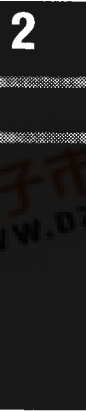


### ■ PIN OUT

Pin No.	Pin Name
1	P <sub>in</sub>
2	V <sub>APC</sub>
3	V <sub>DD</sub>
4	P <sub>out</sub>
G	GND

### ■ ELECTRICAL CHARACTERISTICS (T<sub>C</sub> = 25°C)

Parameter	Symbol	Min	Typ	Max	Unit	Test Conditions
Drain Cutoff Current	I <sub>DS</sub>	—	—	500	$\mu$ A	V <sub>DD</sub> = 17V, V <sub>APC</sub> = 0V
Total Efficiency	$\eta_T$	30	38	—	%	P <sub>in</sub> = 4 mW, V <sub>DD</sub> = 12.5V, P <sub>out</sub> = 12W (at APC Controlled), R <sub>L</sub> = R <sub>g</sub> = 50 $\Omega$ , T <sub>C</sub> = 25°C
2nd Harmonic Distortion	2nd H.D.	—	- 45	- 35	dB	
3rd Harmonic Distortion	3rd H.D.	—	- 55	- 45	dB	
Input VSWR	VSWR (in)	—	1.5	3	—	
Output Power (1)	P <sub>out</sub> (1)	13.5	—	—	W	P <sub>in</sub> = 4 mW, V <sub>DD</sub> = 12.5V, V <sub>APC</sub> = 7.5V, R <sub>L</sub> = R <sub>g</sub> = 50 $\Omega$ , T <sub>C</sub> = 25°C
Output Power (2)	P <sub>out</sub> (2)	7.5	—	—	W	P <sub>in</sub> = 4 mW, V <sub>DD</sub> = 10.8V, V <sub>APC</sub> = 7.5V, R <sub>L</sub> = R <sub>g</sub> = 50 $\Omega$ , T <sub>C</sub> = 75°C
Isolation	—	—	- 50	- 40	dBm	P <sub>in</sub> = 4 mW, V <sub>DD</sub> = 12.5V, V <sub>APC</sub> = 0.5V, R <sub>L</sub> = R <sub>g</sub> = 50 $\Omega$ , T <sub>C</sub> = 25°C
Switching Time	t <sub>r</sub> , t <sub>f</sub>	—	1.0	2	$\mu$ s	P <sub>in</sub> = 4 mW, V <sub>DD</sub> = 12.5V, P <sub>out</sub> = 12W, R <sub>L</sub> = R <sub>g</sub> = 50 $\Omega$ , T <sub>C</sub> = 25°C
Stability	—	No Parasitic Oscillation			—	P <sub>in</sub> = 4 mW, V <sub>DD</sub> = 12.5V, P <sub>out</sub> $\leq$ 12W (at APC Controlled), R <sub>g</sub> = 50 $\Omega$ , t = 20 sec., T <sub>C</sub> = 25°C, Output VSWR = 20:1 All Phases



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