

PF0025 Series

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捷多邦, 专业PCB打样工厂, 24小时

Product Preview

MOS FET Power Amplifier Module for Handy Mobile Phone

加急出货

PF0025: For AMPS 824-849MHz

PF0026: For NMT-900 890-915MHz

PF0027: For E-TACS 872-905MHz

FEATURES

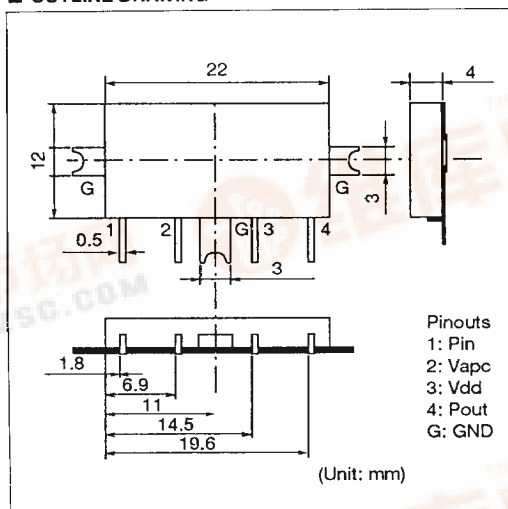
- Surface mounted small package 1cc, 3g
- Low voltage operation 6V (PF0026: 7.5V)
- Low power control current 300 μ A
- High stability load VSWR ≥ 20

ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

Item	Symbol	Rating	Unit
Supply Voltage	V _{DD}	12	V
Supply Current	I _{DD}	2	A
APC Voltage	V _{APC}	± 8	V
Input Power	P _{in}	20	mW
Operating Case Temperature	T _{C(top)}	-30 ~ +100	°C
Storage Temperature	T _{slg}	-30 ~ +100	°C

The absolute maximum ratings are limiting values, to be applied individually, beyond which the device may be permanently damaged. Functional operation under any of these conditions is not guaranteed. Exposing a circuit to its absolute maximum rating for extended periods of time may affect the device's reliability.

OUTLINE DRAWING



ELECTRICAL CHARACTERISTICS (Ta = 25°C)

Item	Symbol	Test Condition		min.	typ.	max.	Unit
		PF0025/27	PF0026				
Drain Cutoff Current	I _{DS}	V _{DD} = 12V, V _{apc} = 0V		—	—	100	μA
Total Efficiency	η _T	V _{DD} = 6V P _{in} = 1mW, P _{out} = 1.2W Z _{in} = Z _{out} = 50Ω	V _{DD} = 7.5V P _{in} = 1mW, P _{out} = 2W Z _{in} = Z _{out} = 50Ω	—	45	—	%
2nd Harmonic Distortion	2nd H.D.			—	—	−30	dB
3rd Harmonic Distortion	3rd H.D.			—	—	−30	dB
Input VSWR	VSWR(in)			—	—	3	—
Output VSWR	VSWR(out)			—	2	—	—
Stability	—	V _{DD} = 6V P _{in} = 1mW P _{out} = 1.2W	V _{DD} = 7.5V P _{in} = 1mW P _{out} = 2W	No Parastic Oscillation		—	
		Output VSWR = 20 All Phases, t = 20 sec					

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