

Part No. FPD3000P100



Preview


PDF

Download

HTML

FPD3000P100 Datasheet (PDF) - Filtronic Compound Semiconductors

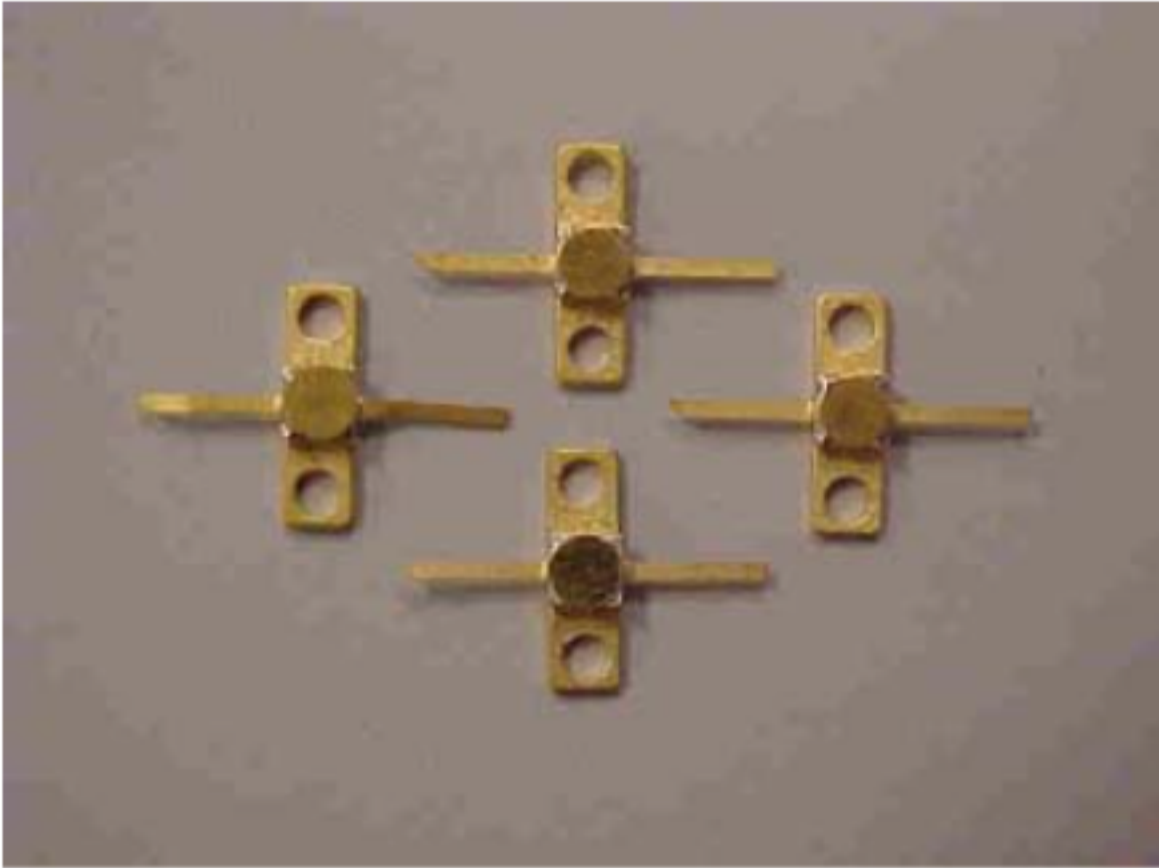
Part No.	FPD3000P100
Description	2W PACKAGED POWER PHEMT
File Size	182.58 Kbytes
Html View	1 2 3
Manufacturer	FILTRONIC [Filtronic Compound Semiconductors]
Direct Link	http://www.filtronic.co.uk/
Logo	



FPD3000P100

2W PACKAGED POWER PHEMT

- **FEATURES**
 - ◆ 32.5 dBm Linear Output Power
 - ◆ 17 dB Power Gain at 2 GHz
 - ◆ 9.5 dB Maximum Stable Gain at 10 GHz
 - ◆ 42 dBm Output IP3
 - ◆ 45% Power-Added Efficiency at 2 GHz



- **DESCRIPTION AND APPLICATIONS**

The FPD3000P100 is a packaged AlGaAs/InGaAs pseudomorphic High Electron Mobility Transistor (PHEMT), featuring a 0.25 μm by 3000 μm Schottky barrier gate, defined by high-resolution stepper-based photolithography. The recessed and offset Gate structure minimizes parasitics to optimize performance. The epitaxial structure and processing have been optimized for reliable high-power applications. The FPD3000P100 also features Si₃N₄ passivation and is also available in die form and in the low cost plastic SOT89 plastic package.

Typical applications include commercial and other narrowband and broadband high-performance amplifiers, including SATCOM uplink transmitters, PCS/Cellular low-voltage high-efficiency output amplifiers, and medium-haul digital radio transmitters.

- **ELECTRICAL SPECIFICATIONS AT 22°C**

Parameter	Symbol	Test Conditions	Min	Typ	Max	Units
UNLESS OTHERWISE NOTED, RF SPECIFICATIONS MEASURED AT $f = 2$ GHz USING CW SIGNAL						
Power-Added Efficiency	η_{PAE}	500 MHz	21.0	22.5	23.0	dB

If the datasheet does not displayed, please, [download the Adobe Reader](#) or [click to view in HTML datasheet.](#)

Related Electronics Part Number

Part No.	Description	Html View	Manufacturer
FPD750P100	0.5W PACKAGED POWER PHEMT	1 2 3	Filtronic Compound Semiconductors
FPD1000AS	1W PACKAGED POWER PHEMT	1 2 3 4 5 More	Filtronic Compound Semiconductors
FPD1500P100	1W PACKAGED POWER PHEMT	1 2 3	Filtronic Compound Semiconductors
LP3000P100	PACKAGED 2W POWER PHEMT	1 2 3	Filtronic Compound Semiconductors
LP6836P70	PACKAGED MEDIUM POWER PHEMT	1 2 3	Filtronic Compound Semiconductors
LP6872P100	Packaged 0.5W Power PHEMT	1 2	Filtronic Compound Semiconductors
FPD10000AF	10W PACKAGED POWER PHEMT	1 2 3	Filtronic Compound Semiconductors
LP6836P100	Packaged 0.25W Power PHEMT	1 2	Filtronic Compound Semiconductors
LP6836SOT343	PACKAGED MEDIUM POWER PHEMT	1 2	Filtronic Compound Semiconductors

Link URL

<https://pdf1.alldatasheet.com/datasheet-pdf/view/123788/FILTRONIC/FPD3000P100.html>

Does ALLDATASHEET help your business so far? [[DONATE](#)]