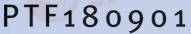
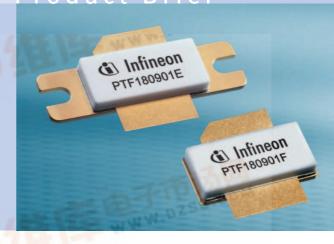
# 查询PTF180901E供应商



GSM/EDGE RF Power FET



# The PTF180901

One of our new line of GSM/EDGE/CDMA2000 devices, the PTF180901 is optimized for the DCS and PCS bands. This device operates at 47% efficiency with 13.5 dB of gain and produces 115 W, P. 1dB. This high-gain high-efficiency device is ideal to power your amplifier design. A laterally diffused single-ended GOLDMOS® FET, it incorporates full gold metallization and integrated ESD protection to ensure excellent lifetime and reliability.

## Features

- Optimized for bandwidths 1805 MHz 1880 MHz and WWW.DZSC.COM 1930 MHz - 1990 MHz
- Improved ruggedness
- Broadband internal matching
- Full gold metallization
- Integrated ESD protection: Human Body Model, Class 1 (minimum)
- Excellent thermal stability
- Low HCI drift
- Capable of handling 10:1 VSWR@28 V, 90 W (CW) output power

# Performance

- Typical EDGE performance
  - Average output power = 35 W
  - Gain = 14.5 dB
  - Efficiency = 32%
    - EVM = 1.7% AVG
    - ACPR@400 KHz = -60 dBc
    - ACPR@600 KHz = -74 dBc
- Typical two-tone performance
  - Output power = 90 W PEP
  - Gain = 15 dB
  - Efficiency = 36%
    - IM3 = -30 dBc
    - 1 MHz tone spacing

# Type List

Туре	Output Power	Gain	Supply Voltage	Package Type	Package
PTF180901E	90 W	15 dB	28 V	Thermally enhanced	30248
PTF180901F	90 W	15 dB	28 V	Thermally enhanced, earless	31248

www.infineon.com/wireless

Wireless Communication





# Product Brief

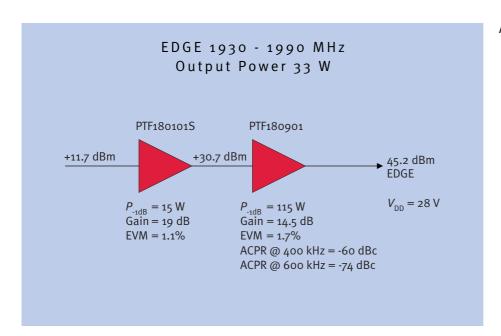
#### Typical EDGE EVM Performance $V_{\rm DD} = 28 \text{ V}, I_{\rm DO} = 1.2 \text{ A}, f_{\rm C} = 1989.1 \text{ MHz}$ 40 4.0 % % 3.0 30 Efficiency 2.5 25 Average EVM RMS Drain Efficiency **EVM** 20 2.0 15 1.5 10 1.0 0.5 5 0 30 dBm 35 45 50 **Output Power**

# Performance Characteristics

Two-Tone Measurements

 $V_{\rm DD}$  = 28 V,  $I_{\rm DO}$  = 1.2 A,  $P_{\rm OUT}$  = 90 W PEP,  $f_{\rm C}$  = 1930 MHz, Tone Spacing = 100 kHz

55 54 55.				-	
Characteristic	Symbol	Min.	Typ.	Max.	Units
Gain	$G_{ps}$	14	15	-	dB
Drain Efficiency	$\eta_{ extsf{D}}$	30	36	-	%
Intermodulation Distortion	IMD	-	-30	-28	dBc



# Application Example

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## Information

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