

Part No. PTF180101M



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PTF180101M Datasheet (PDF) - Infineon Technologies AG

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Description [High Power RF LDMOS Field Effect Transistor 10 W, 1.0 – 2.0 GHz](#)

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Manufacturer INFINEON [Infineon Technologies AG]

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PTF180101M



High Power RF LDMOS Field Effect Transistor 10 W, 1.0 – 2.0 GHz

Description

The PTF180101M is an unmatched 10-watt *GOLDMOS*[®] FET intended for class AB base station applications in the 1 to 2 GHz band. This LDMOS device offers excellent gain, efficiency and linearity performance in a small footprint.



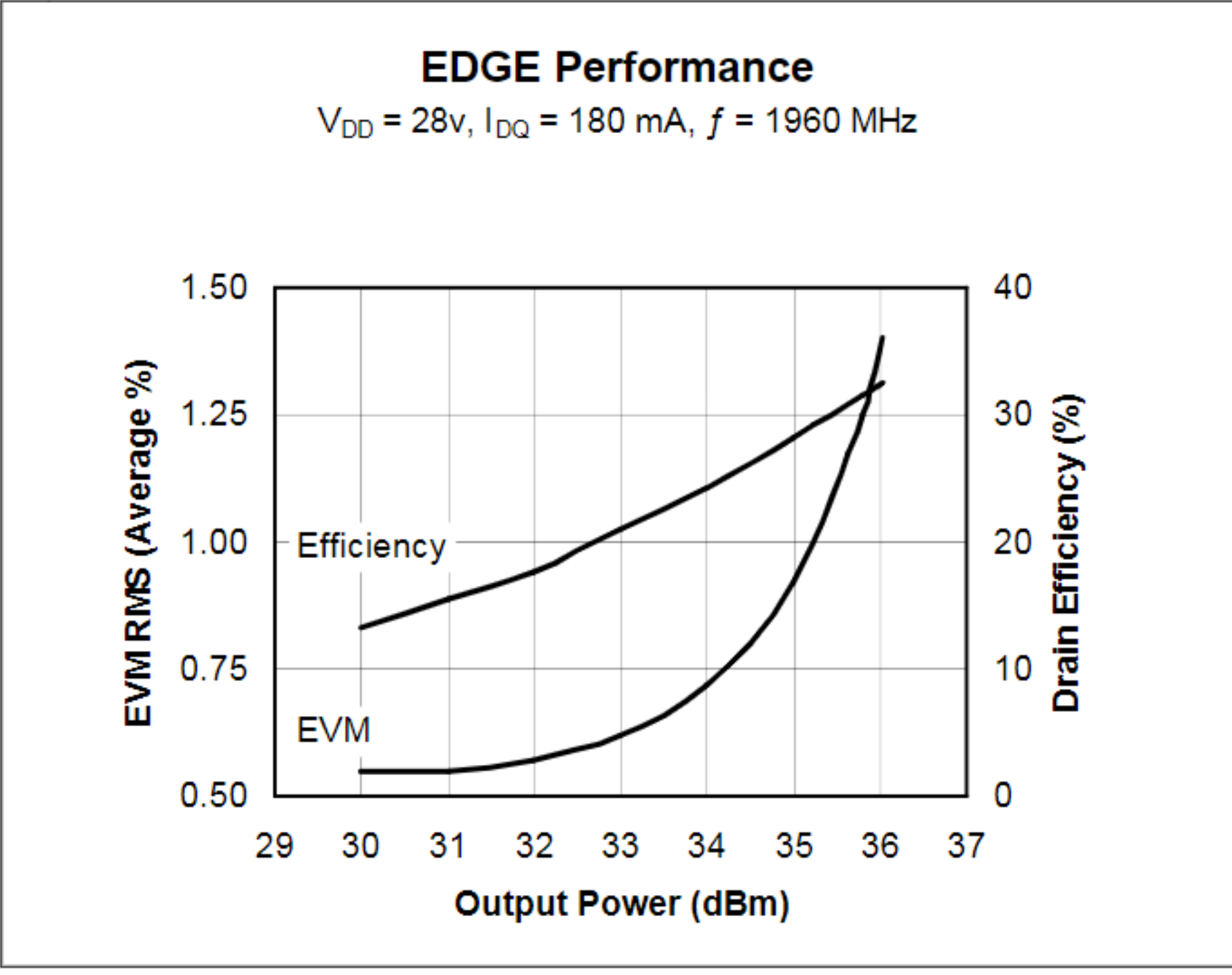
PTF180101M
Package PG-RFP-10

Features

- Typical EDGE performance
 - Average output power = 4.0 W
 - Gain = 17 dB
 - Efficiency = 31%
 - EVM = 1.3 %
- Typical CW performance
 - Output Power at P-1dB = 10 W
 - Gain = 16 dB
 - Efficiency = 50%
- Integrated ESD protection: Human Body Model Class 1 (minimum)
- Excellent thermal stability
- Low HCI drift
- Capable of handling 10:1 VSWR @ 28 V, 10 W (CW) output power
- Pb-free and RoHS compliant

EDGE Performance

$V_{DD} = 28\text{V}$, $I_{DQ} = 180\text{ mA}$, $f = 1960\text{ MHz}$



RF Characteristics

Two-Tone Measurements (not subject to production test—verified by design/characterization in Infineon test fixture)

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