

Who is Polyfet RF Devices?

Established in 1987,
Polyfet RF Devices is a
California based
manufacturer of broadband
LDMOS, VDMOS, and
GaN power transistors and
power modules.

Polyfet's Financials

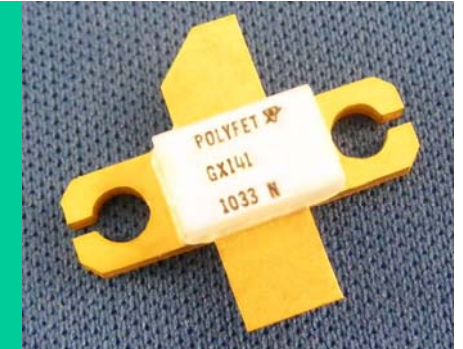
- Private corporation
- Profitable each year since inception (1987)
- Own our building and capital equipment
- No long term debt (no bank loans)
- Liquid with respectable cash account

How does Polyfet size up?

- Have 25 employees
- 7500 (700 square meters) square foot facility
- Annual revenue of roughly \$6.0M
- Automated assembly equipment
- Production capabilities of over 5Kpcs/mo
- Own our masks, use domestic wafer fab
- Quality and Production procedures to ISO9000 and MIL I 45208A standards

What does Polyfet offer to the Market?

- GaN transistors
- LDMOS transistors
- VDMOS transistors
- Broadband Modules
- Linear and non-linear models for simulation
- 4 week lead times
- Application notes
- Custom amplifier and module design service
- Technical support
- Long-Term (15+ years) production support



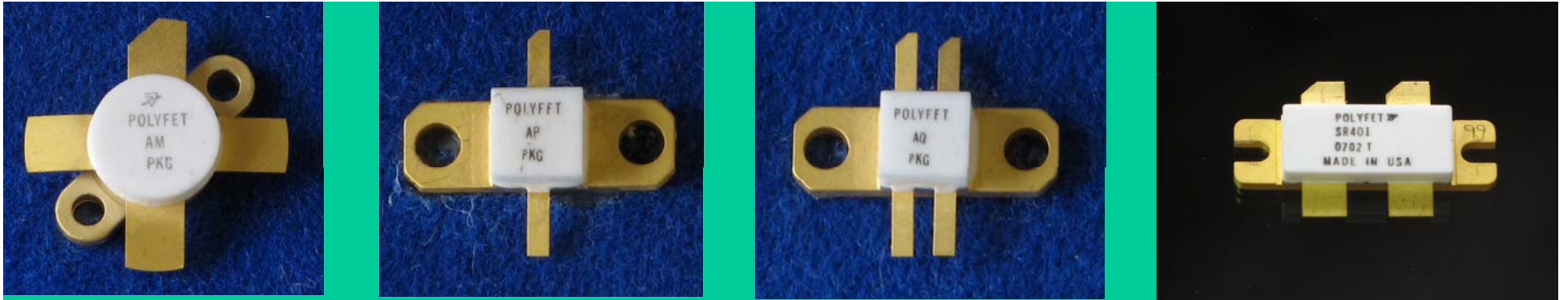
Gallium Nitride Transistors

- GaN on SiC technology
- Frequency: Up to 3GHz
- Output power: Up to 120W P3dB
- Operating voltage: 24 - 50Vdc



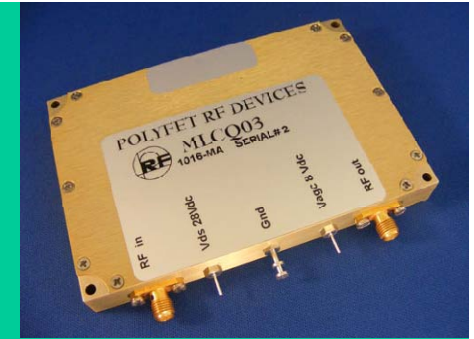
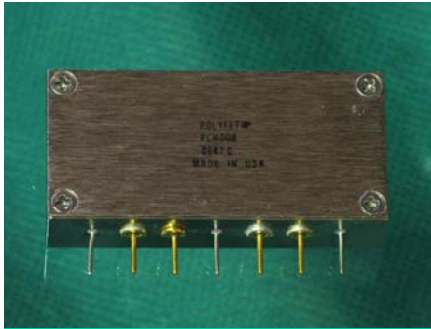
Polyfet LDMOS devices

- Frequency: Up to 1.5GHz
- Output power: Up to 600W
- Operating voltage: 5 - 50Vdc



Polyfet VDMOS devices

- Frequency: Up to 1GHz
- Output power: Up to 400W
- Operating voltage: 12 - 50Vdc



Broadband modules

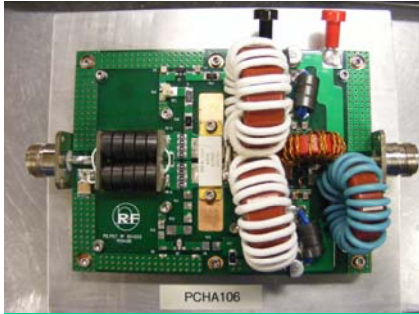
- Frequency: 1.6 - 1000MHz
- Output power: Up to 300W
- Operating voltage: 12 - 28Vdc
- Z_{in}/Z_{out} : 50 ohms
- Connection type: Feed-thru pin or SMA
- Details in “Modules” section of web site

Product Highlights!

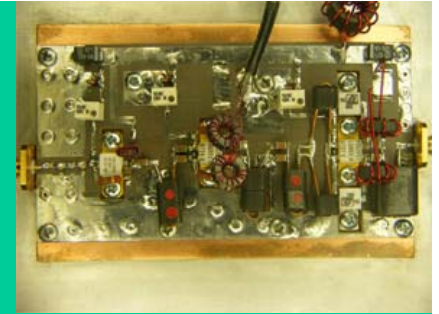
- GP041: 10W, up to 2.5GHz, 11dB, 48Vdc
- GX141: 35W, up to 2.5GHz, 11dB, 48Vdc
- GX241: 60W, up to 2.5GHz, 11dB, 48Vdc
- GX341: 85W, up to 2.5GHz, 11dB, 48Vdc
- GX242: 120W, up to 2.5GHz, 11dB, 48Vdc
- LK141: 25W, 20-512MHz, 13dB, 28Vdc
- LK142: 40W, 20-512MHz, 13dB, 28Vdc
- LR941: 60-80W, 20-512MHz, 11dB, 28Vdc
- LR941: 80-110W, 20-512MHz, 12dB, 50Vdc
- LY942: 600W, 108MHz, 19dB, 50Vdc

Linear and non-linear models

- S-parameters for each device
- Spice, ADS, AWR models available
- Simulation design files for extracting Z_{in}/Z_{out}
- Broadband amplifier design file.
- Models found in the “s-parameters and spice models” section of web site



Technical Bulletins



- Working amplifiers used to demonstrate the performance of our devices
- Free to evaluate
- ACAD pcb layouts with each application note
- Saves engineering time for customer
- Complete amplifier listing in the “application notes” section of web site

Applications for our Product

- 520-1610kHz (AM)
- 2-30MHz (HF or Short wave)
- 30-88MHz (Military ground comms)
- 54-88MHz (TV VHF I)
- 88-108MHz (FM)
- 118-140MHz (Avionics)
- 136-174MHz (Commercial ground comms)
- 160-230MHz (TV VHF III)
- 30-512MHz (Military: Jammer, Ground/Air comms)
- 470-860MHz (TV UHF)
- 100kHz - 1000MHz (ISM, NMR, Medical, Instrumentation or EMC)
- 1-3GHz (Public communication, jammers, Instrumentation)

Technical Support

Polyfet understands the complex nature of matching power MOSFETs. Polyfet offers technical assistance to their customers at any time.

Long-Term Production Support!

Polyfet designs and releases our product with long (15+ years) production cycles in mind. We can/do still deliver product today that we introduced 20 years ago.

Road Map for Polyfet

Continue to focus on providing high-performing, broad band, power transistors and power modules to the military, commercial, and medical markets. Polyfet will expand its line of GaN devices, while continuing to manufacture VDMOS and LDMOS devices. Polyfet will offer broad band evaluation amplifiers and power modules utilizing GaN technology in 3Q2011.

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