# **PolyFET** GaN Transistor Pairing with Controller & Switch

November 2016

Sizing is based on individual GaN Peak Power Output and the current drawn determines the size of the MOS Switch. Multiple GaN devices per single MOS Switch is allowed if total current do not exceed the maximum. The list assumes that devices are operating in CW.

| Model Number | Freq min (GHz) | Freq max (GHz) | Gain (dB) | Pout (W) | Vds (V) | Typ Eff (%) | Ids (A) | MOS size (A) min | Controller | Switch (Pulsed or CW) | Eval Board, Drop-In (Pulsed or CW) | Eval Board, Removable (Pulsed Only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G21001 | 1 | 3000 | 11 | 10 | 28 | 45% | 0.79 | 1.6 | 100X,200X | 392P,395C,332P,335C | 610E,620E | 792E,795E,732E,735E |
| G22001 | 1 | 3000 | 11 | 20 | 28 | 60% | 1.19 | 2.4 | 100X,200X | 392P,395C,332P,335C | 610E,620E | 792E,795E,732E,735E |
| GP1001 | 1 | 3000 | 11 | 10 | 28 | 45% | 0.79 | 1.6 | 100X,200X | 392P,395C,332P,335C | 610E,620E | 792E,795E,732E,735E |
| GP2001 | 1 | 3000 | 11 | 20 | 28 | 60% | 1.19 | 2.4 | 100X,200X | 392P,395C,332P,335C | 610E,620E | 792E,795E,732E,735E |
| GX2001 | 1 | 3000 | 11 | 20 | 28 | 60% | 1.19 | 2.4 | 100X,200X | 392P,395C,332P,335C | 610E,620E | 792E,795E,732E,735E |
| GX4001 | 1 | 3000 | 11 | 35 | 28 | 55% | 2.27 | 4.5 | 100X,200X | 392P,395C,332P,335C | 610E,620E | 792E,795E,732E,735E |
| GX4002 | 1 | 3000 | 11 | 70 | 28 | 50% | 5.00 | 10.0 | 100X,200X | 362P,365C | 630E,640E | 762E,765E |
| G21441 | 1 | 3000 | 11 | 10 | 48 | 32% | 0.65 | 1.3 | 100X,200X | 392P,395C,332P,335C | 610E,620E | 792E,795E,732E,735E |
| GP1441 | 1 | 3000 | 11 | 10 | 48 | 32% | 0.65 | 1.3 | 100X,200X | 392P,395C,332P,335C | 610E,620E | 792E,795E,732E,735E |
| GP2441 | 1 | 3000 | 11 | 40 | 48 | 50% | 1.67 | 3.3 | 100X,200X | 392P,395C,332P,335C | 610E,620E | 792E,795E,732E,735E |
| GX2441 | 1 | 3000 | 11 | 50 | 48 | 50% | 2.08 | 4.2 | 100X,200X | 392P,395C,332P,335C | 610E,620E | 792E,795E,732E,735E |
| GX3441 | 1 | 3000 | 12 | 80 | 48 | 55% | 3.03 | 6.1 | 100X,200X | 392P,395C,332P,335C | 610E,620E | 792E,795E,732E,735E |
| GX4441 | 1 | 3000 | 12 | 100 | 48 | 55% | 3.79 | 7.6 | 100X,200X | 392P,395C,332P,335C | 610E,620E | 792E,795E,732E,735E |
| GX3442 | 1 | 3000 | 11 | 120 | 48 | 50% | 5.00 | 10.0 | 100X,200X | 362P,365C | 630E,640E | 762E,765E |
| GX4442 | 1 | 3000 | 12 | 160 | 48 | 50% | 6.67 | 13.3 | 100X,200X | 362P,365C | 630E,640E | 762E,765E |

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