



# MACOM GaN Transistor Pairing with Controller & Switch

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.

November 2016

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)
MAGe-102425-300	2.4	2.5	18	300	50	50%	12.00	24.0	100X,200X	362P,365C	630E,640E	762E,765E
MAGx-011086	0	6	9	4	28	45%	0.32	0.6	100X,200X	392P,395C,332P,335C	610E,620E	792E,795E,732E,735E
NPA1003QA	.02	1.5	16	5	28	40%	0.45	0.9	100X,200X	392P,395C,332P,335C	610E,620E	792E,795E,732E,735E
NPA1006	.02	1	14	12	28	60%	0.71	1.4	100X,200X	392P,395C,332P,335C	610E,620E	792E,795E,732E,735E
NPA1007	.02	2.5	12	10	28	40%	0.89	1.8	100X,200X	392P,395C,332P,335C	610E,620E	792E,795E,732E,735E
NPA1008	0	2.7	12	5	28	45%	0.40	0.8	100X,200X	392P,395C,332P,335C	610E,620E	792E,795E,732E,735E
NPT1004D	0	2.5	13	45	28	50%	3.21	6.4	100X,200X	392P,395C,332P,335C	610E,620E	792E,795E,732E,735E
NPT1007B	0	2	18	200	28	50%	14.29	28.6	100X,200X	362P,365C	630E,640E	762E,765E
NPT1010B	0	2	18	100	28	55%	6.49	13.0	100X,200X	332P,335C,362P,365C	630E,640E	732E,735E,762E,765E
NPT1010P	0	2	18	100	28	55%	6.49	13.0	100X,200X	332P,335C,362P,365C	630E,640E	732E,735E,762E,765E
NPT1012B	0	3.5	13	25	28	55%	1.62	3.2	100X,200X	392P,395C,332P,335C	610E,620E	792E,795E,732E,735E
NPT1015B	0	3.5	12	45	28	45%	3.57	7.1	100X,200X	392P,395C,332P,335C	610E,620E	792E,795E,732E,735E
NPT2010	0	2.2	17	100	48	50%	4.17	8.3	100X,200X	332P,335C,362P,365C	630E,640E	732E,735E,762E,765E
NPT2018	0	6	17.5	12.5	48	50%	0.52	1.0	100X,200X	392P,395C,332P,335C	610E,620E	792E,795E,732E,735E
NPT2020	0	3.5	17	50	48	50%	2.08	4.2	100X,200X	392P,395C,332P,335C	610E,620E	792E,795E,732E,735E
NPT2021	0	2.5	14	45	48	45%	2.08	4.2	100X,200X	392P,395C,332P,335C	610E,620E	792E,795E,732E,735E
NPT2022	0	2	19	100	48	50%	4.17	8.3	100X,200X	332P,335C,362P,365C	630E,640E	732E,735E,762E,765E
NPT2024	0	3	16	200	50	50%	8.00	16.0	100X,200X	362P,365C	630E,640E	762E,765E
NPT25015D	0	2.7	14	23	28	50%	1.64	3.3	100X,200X	392P,395C,332P,335C	610E,620E	792E,795E,732E,735E
NPT25100B	2.1	2.7	16	125	28	50%	8.93	17.9	100X,200X	362P,365C	630E,640E	762E,765E
NPT25100P	2.1	2.7	16	125	28	50%	8.93	17.9	100X,200X	362P,365C	630E,640E	762E,765E
NPT35015D	3.3	3.8	11	18	28	40%	1.61	3.2	100X,200X	392P,395C,332P,335C	610E,620E	792E,795E,732E,735E
NPT35050AB	3.3	3.8	13	65	28	40%	5.80	11.6	100X,200X	362P,365C	630E,640E	762E,765E
NPTB00004A	0	6	16	5	28	45%	0.40	0.8	100X,200X	392P,395C,332P,335C	610E,620E	792E,795E,732E,735E
NPTB00004D	0	6	15	5	28	50%	0.36	0.7	100X,200X	392P,395C,332P,335C	610E,620E	792E,795E,732E,735E
NPTB00025AB	0	4	13	25	28	60%	1.49	3.0	100X,200X	392P,395C,332P,335C	610E,620E	792E,795E,732E,735E
NPTB00025B	0	4	13	25	28	60%	1.49	3.0	100X,200X	392P,395C,332P,335C	610E,620E	792E,795E,732E,735E
NPTB00050B	0	4	-	25	28	40%	2.23	4.5	100X,200X	392P,395C,332P,335C	610E,620E	792E,795E,732E,735E