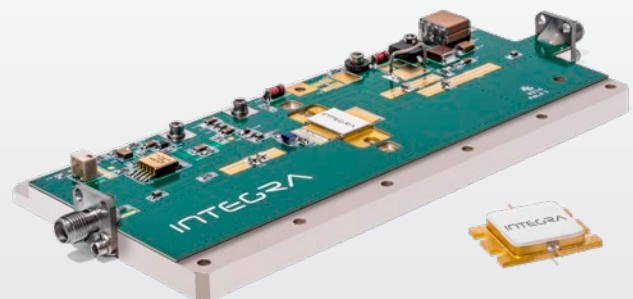


FIND YOUR POWER

Product Selection Guide | June 2018



**OFFERING UNIQUE EXPERTISE IN
OPTIMIZING STANDARD AND CUSTOM
RF POWER SOLUTIONS FOR RADAR,
INTEGRA IS POWERING CRITICAL
AVIONIC, DEFENSE AND WEATHER
SYSTEMS ACROSS THE GLOBE**



RF Power Transistors for New Designs	4-5
RF Power Transistors for Legacy Designs.	5-7
50-Ohm RF Power Transistors	8
RF Power Modules.	9
Mechanical Drawings	10-11



We understand what's at stake at the end of a radar signal. So, if you're striving for best-in-class output power with optimized thermal and electrical efficiency, we're ready to meet the challenge with you.

We offer a full selection of the most advanced high-power **GaN/SiC RF power transistors**, to **50-Ohm RF power transistors**, and **RF power modules** for **UHF through X-band** applications. We also continue to offer **Si-Bipolar**, **LDMOS** and **VDMOS** devices that support new and legacy programs.

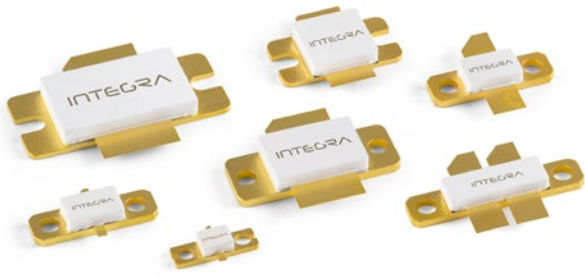
Once you've reviewed our suite of standard devices, visit **IntegraTech.com** to download datasheets, submit application engineering questions, and request pricing.

Integra Custom Power

Have a power amplifier application that requires a little extra attention? Our technical sales and engineering team supports all your requests to modify our standard devices or custom engineer an integrated solution to your unique electrical and mechanical specifications.

Visit **IntegraTech.com/Support** to get started.

RF Power Transistors for New and Legacy Designs



In addition to the latest in GaN/SiC solutions, our lineup of pre-matched devices includes new Si-LDMOS and Si-VDMOS models, as well as hard-to-find Si-bipolar models for your legacy systems. Our designs have been optimized for various radar applications where size, weight, frequency, and power performance variables need to be critically balanced.

- Solutions up to 6 GHz
- Output power up to 1200 W
- Efficiencies up to 77%
- Thermally-efficient metallized packages

RF Power Transistors for New Designs (GaN/SiC)

PRODUCTS IN DEVELOPMENT

Part Number	Frequency Band (GHz)	Output Power (W)	Pulse width & Duty factor	Gain (typ.) (dB)	Efficiency (typ.) (%)	Voltage (V)	Matching	Package
IGN0160UM15	0.10 - 6.00	15	CW	18	50	50	None	PL21A1
IGN0110UM100	0.10 - 1.00	100	CW	13	55	28	None	PL22D1
IGN450M160	0.42 - 0.45	160	100µs, 10%	22	77	50	Input	PL44C1
IGN0912L45	0.96 - 1.215	45	444x (7µs On, 6µs Off), 22.7%	21	57	50	Input	PL32A2
IGN0912L125A	0.96 - 1.215	125	444x (7µs On, 6µs Off), 22.7%	18	55	50	Input & Output	PL44C1
IGN0912L250A	0.96 - 1.215	250	444x (7µs On, 6µs Off), 22.7%	18	63	50	Input & Output	PL44C1
IGN0912L250M	0.96 - 1.215	250	444x (7µs On, 6µs Off), 22.7%	18	60	50	Input	PL44C1
IGN0912L500	0.96 - 1.215	500	444x (7µs On, 6µs Off), 22.7%	15	65	50	Input & Output	PL95A1
IGN0912LM500	0.96 - 1.215	500	48x (32µs On, 18µs Off), 6.4%	18	60	50	Input	PL44C1
IGN0912CW10	0.96 - 1.215	10	CW	18	40	28	Input	PL32A2
IGN0912CW150	0.96 - 1.215	150	CW	12	60	28	Input & Output	PL95A1
IGN0912CW300	0.96 - 1.215	300	CW	14	70	36	Input & Output	PL95A1
IGN1012S30	1.025 - 1.15	30	32µs, 2%	19	55	50	Input	PL32A2
IGN1012S40	1.025 - 1.15	40	32µs, 2%	22	65	50	Input	PL32A2
IGN1012L40	1.025 - 1.15	40	48x (32µs On, 18µs Off), 6.4%	21	60	50	Input	PL32A2
IGN1012S1000	1.025 - 1.15	1000	32µs, 2%	16	50	50	Input	PL84A1
IGN1030M40	1.03	40	300µs, 10%	22	65	50	Input	PL32A2
IGN1030M800	1.03	800	128µs, 2%	17	60	50	Input	PL84A1
IGN1030L800	1.03	800	48x (32µs On, 18µs Off), 6.4%	17	65	50	Input	PL84A1
IGN1030L1000	1.03	1000	48x (32µs On, 18µs Off), 6.4%	17	65	50	Input	PL84A1
IGN1011M15	1.03 - 1.09	15	128µs, 2%	20	55	50	Input	PL32A2
IGN1011M400	1.03 - 1.09	400	128µs, 2%	16	65	50	Input	PL64A1
IGN1011M600	1.03 - 1.09	600	128µs, 2%	16	65	50	Input	PL64A1
IGN1011M800	1.03 - 1.09	800	128µs, 2%	16	60	50	Input	PL84A1
IGN1011L60	1.03 - 1.09	60	48x (32µs On, 18µs Off), 6.4%	19	65	50	Input	PL32A2
IGN1011L70	1.03 - 1.09	70	48x (32µs On, 18µs Off), 6.4%	22	65	50	Input	PL32A2
IGN1011L120	1.03 - 1.09	120	48x (32µs On, 18µs Off), 6.4%	20	60	50	Input	PL44C1
IGN1011L1000R2	1.03 - 1.09	1000	48x (32µs On, 18µs Off), 6.4%	17	65	50	Input	PL84A1
IGN1011L1200	1.03 - 1.09	1200	48x (32µs On, 18µs Off), 6.4%	17	75	50	Input	PL84A1
IGN1090M800	1.09	800	128µs, 2%	17	62	50	Input	PL84A1
IGN1214M60	1.20 - 1.40	60	300µs, 10%	19	60	50	Input & Output	PL44A1
IGN1214M120	1.20 - 1.40	120	300µs, 10%	19	60	50	Input & Output	PL44C1
IGN1214M250	1.20 - 1.40	250	300µs, 10%	16	60	50	Input & Output	PL44C1
IGN1214M380C	1.20 - 1.40	380	150µs, 10%	20	54	50	Input	PL44C1
IGN1214M500	1.20 - 1.40	500	300µs, 10%	14	60	50	Input & Output	PL95A1
IGN1214M500R2	1.20 - 1.40	500	100µs, 10%	17	70	50	Input	PL44C1
IGN1214M600	1.20 - 1.40	600	150µs, 10%	20	71	50	Input	PL64A1
IGN1214M650A	1.20 - 1.40	650	300µs, 10%	13	72	50	Input & Output	PL95A1

IG = GaN/SiC

RF Power Transistors for New Designs (GaN/SiC) *Continued*

PRODUCTS IN DEVELOPMENT

Part Number	Frequency Band (GHz)	Output Power (W)	Pulse width & Duty factor	Gain (typ.) (dB)	Efficiency (typ.) (%)	Voltage (V)	Matching	Package
IGN1214S1000B	1.20 - 1.40	1000	5µs, 1.5%	16	65	50	Input & Output	PL84A1
IGN1214L15	1.20 - 1.40	15	5ms, 30%	16	55	50	Input & Output	PL32A2
IGN1214L30	1.20 - 1.40	30	5ms, 30%	16	60	42	Input & Output	PL32A2
IGN1214L125	1.20 - 1.40	125	2ms, 20%	18	55	50	Input & Output	PL44C1
IGN1214L380	1.20 - 1.40	380	5ms, 30%	12	60	42	Input & Output	PL95A1
IGN1214L500B	1.20 - 1.40	500	2ms, 20%	16	65	50	Input & Output	PL95A1
IGN1300CW300	1.30	300	CW	12	70	36	Input & Output	PL95A1
IGN1315M650	1.30 - 1.45	650	300µs, 10%	18	60	60	Input	PL84A1
IGN2429M400	2.40 - 2.90	400	300µs, 10%	13	50	48	Input & Output	PL84A1
IGN2729M250C	2.70 - 2.90	250	300µs, 10%	11	59	50	Input & Output	PL64A1
IGN2729M400	2.70 - 2.90	400	300µs, 10%	11	58	50	Input & Output	PL64A1
IGN2729M500	2.70 - 2.90	500	300µs, 10%	12	60	50	Input & Output	PL84A1
IGN2730M65	2.70 - 3.00	65	300µs, 20%	15	58	32	Input & Output	PL32A1
IGN2731M5	2.70 - 3.10	5	300µs, 10%	15	48	40	Input	PL32A1
IGN2731M80	2.70 - 3.10	80	100µs, 10%	14	50	40	Input & Output	PL32A1
IGN2731M120	2.70 - 3.10	120	100µs, 20%	13	65	30	Input & Output	PL44C1
IGN2731M130	2.70 - 3.10	130	100µs, 10%	15	55	40	Input & Output	PL32A1
IGN2731M180	2.70 - 3.10	180	100µs, 10%	13	58	50	Input & Output	PL32A1
IGN2731M200	2.70 - 3.10	200	300µs, 10%	14	54	44	Input & Output	PL64A1
IGN2731L10	2.70 - 3.10	10	40ms, 50%	15	40	32	Input	PL32A2
IGN2731L200	2.70 - 3.10	200	3ms, 30%	14	54	42	Input & Output	PL64A1
IGN2732M10	2.70 - 3.20	10	100µs, 10%	16	48	40	Input & Output	PL32A2
IGN2856S40	2.856	40	12µs, 3%	11	60	50	Input	PL32A2
IGN2856S500	2.856	500	12µs, 3%	12	60	50	Input & Output	PL64A1
IGN2932M75	2.90 - 3.20	75	100µs, 10%	13	55	45	Input & Output	PL32A1
IGN2998S500	2.998	500	8µs, 1%	12	55	50	Input & Output	PL64A1
IGN3135M135	3.10 - 3.50	135	300µs, 10%	13	55	50	Input & Output	PL32A1
IGN3135M250	3.10 - 3.50	250	300µs, 10%	13	50	50	Input & Output	PL44C1
IGN3135L12	3.10 - 3.50	12	3ms, 30%	16	50	46	Input	PL32A2
IGN3135L115	3.10 - 3.50	115	3ms, 30%	14	51	46	Input & Output	PL44C1
IGN3842M130	3.80 - 4.20	130	100µs, 2%	14	57	50	Input & Output	PL32A1
IGN5259M80R2	5.20 - 5.90	80	300µs, 10%	13	48	50	Input & Output	PL32A1

IG = GaN/SiC

RF Power Transistors for Legacy Designs (Si- Bipolar/LDMOS/VDMOS)

Part Number	Frequency Band (GHz)	Output Power (W)	Pulse width & Duty factor	Gain (typ.) (dB)	Efficiency (typ.) (%)	Voltage (V)	Matching	Package
IDM175CW300	0.001 - 0.20	300	CW	15	57	50	None	P44I5
IDM500CW200	0.001 - 0.50	200	CW	10	63	28	None	P44I1
IDM500CW300	0.001 - 0.50	300	CW	9	65	28	None	P44I1
IDM30512CW50	0.03 - 0.512	50	CW	10	50	28	None	P44I1
IDM30512CW100	0.03 - 0.512	100	CW	9	65	28	None	P44I1
IDM165L650	0.125 - 0.167	650	1ms, 20%	9	62	34	None	P44I1
IDM265L650	0.190 - 0.265	650	1ms, 20%	8	58	34	None	P44C5 x2
IB450S300	0.45	300	30µs, 10%	11	63	40	Input	P44I1
IB450S500	0.45	500	30µs, 10%	10	68	40	Input	P64A2
IB0607S10	0.653 - 0.687	10	20µs, 2%	10	49	50	None	P32A5
IB0607S100	0.653 - 0.687	100	20µs, 2%	13	62	50	Input	P32A5
IB0607S1000	0.653 - 0.687	1000	20µs, 2%	9	55	50	Input	P64A6
IB0810M12	0.87 - 0.99	12	300µs, 15%	8	53	36	None	P44C3
IB0810M50	0.87 - 0.99	50	300µs, 15%	8	52	36	Input	P44C3
IB0810M100	0.87 - 0.99	100	300µs, 15%	10	69	36	Input	P44C3

IB = Si-Bipolar, IL = Si-LDMOS, ID=Si-VDMOS

RF Power Transistors for Legacy Designs (Si- Bipolar/LDMOS/VDMOS) *Continued*

Part Number	Frequency Band (GHz)	Output Power (W)	Pulse width & Duty factor	Gain (typ.) (dB)	Efficiency (typ.) (%)	Voltage (V)	Matching	Package
IB0810M210	0.87 - 0.99	210	300µs, 15%	8	59	36	Input	P44C3
IB0912M70	0.96 - 1.215	70	10µs, 10%	11	64	50	Input & Output	P32C1
IB0912M210	0.96 - 1.215	210	10µs, 10%	12	53	50	Input & Output	P44C7
IB0912M350	0.96 - 1.215	350	10µs, 10%	11	57	50	Input & Output	P54A5
IB0912M500	0.96 - 1.215	500	10µs, 10%	8	56	50	Input & Output	P64A2
IB0912M600	0.96 - 1.215	600	10µs, 10%	9	53	50	Input & Output	P64A28
IB0912L30	0.96 - 1.215	30	450µs, 15%	11	61	36	Input	P22A1
IB0912L70	0.96 - 1.215	70	444x (7µs On, 6µs Off), 22.7%	12	58	44	Input & Output	P22A1
IB0912L200	0.96 - 1.215	200	444x (7µs On, 6µs Off), 22.7%	10	58	44	Input & Output	P54A5
ILD0912M15HV	0.96 - 1.215	15	10µs, 10%	14	44	50	None	PL32A1
ILD0912M60	0.96 - 1.215	60	10µs, 10%	17	48	30	Input & Output	PL44B1
ILD0912M150HV	0.96 - 1.215	150	10µs, 10%	13	55	50	Input & Output	PL84A1
ILD0912M400HV	0.96 - 1.215	400	10µs, 10%	9	46	50	Input & Output	PL95A1
ILD1012S500HV	1.025 - 1.15	500	10µs, 1%	16	49	50	Input & Output	PL84A1
IB1012S10	1.025 - 1.15	10	10µs, 1%	11	43	50	Input & Output	P32C1
IB1012S20	1.025 - 1.15	20	10µs, 1%	10	51	50	Input & Output	P64A8
IB1012S50	1.025 - 1.15	50	10µs, 1%	11	49	50	Input	P32A5
IB1012S150	1.025 - 1.15	150	10µs, 1%	10	30	50	Input & Output	P44C14
IB1012S500	1.025 - 1.15	500	10µs, 1%	10	54	50	Input & Output	P54A5
IB1012S800	1.025 - 1.15	800	10µs, 1%	10	50	50	Input & Output	P64A6
IB1012S1100	1.025 - 1.15	1100	10µs, 1%	10	50	60	Input & Output	P64A6
IB1011M10	1.03	10	128x (0.5µs On, 0.5µs Off), 1%	10	52	50	None	P32A5
IB1011M20	1.03	20	128x (0.5µs On, 0.5µs Off), 1%	14	61	50	None	P32A5
IB1011M70	1.03	70	128x (0.5µs On, 0.5µs Off), 1%	9	65	50	Input	P32A5
IB1011M140	1.03	140	128x (0.5µs On, 0.5µs Off), 1%	12	56	50	Input	P32A5
IB1011M190	1.03	190	128x (0.5µs On, 0.5µs Off), 1%	12	75	50	Input	P32A5
IB1011M250	1.03	250	128x (0.5µs On, 0.5µs Off), 1%	8	62	50	Input	P32A5
IB1011M350	1.03	350	128x (0.5µs On, 0.5µs Off), 1%	11	72	50	Input	P32A5
IB1011M660	1.03	660	128x (0.5µs On, 0.5µs Off), 1%	11	57	50	Input	P64A2
IB1011M800	1.03	800	128x (0.5µs On, 0.5µs Off), 1%	9	52	50	Input	P64A2
IB1011M1000	1.03	1000	128x (0.5µs On, 0.5µs Off), 1%	9	58	50	Input	P64A6
IB1011L15	1.03	15	48x (32µs On, 18µs Off), 6.4%	15	67	48	None	P32A5
IB1011L40	1.03	40	48x (32µs On, 18µs Off), 6.4%	10	57	48	Input	P32A5
IB1011L110	1.03	110	48x (32µs On, 18µs Off), 6.4%	11	65	48	Input	P32A5
IB1011L220	1.03	220	48x (32µs On, 18µs Off), 6.4%	9	56	48	None	P32A5
IB1011L470	1.03	470	48x (32µs On, 18µs Off), 6.4%	10	57	48	Input	P64A2
IB1011S70	1.03	70	10µs, 1%	10	70	50	Input	P32A5
IB1011S190	1.03	190	10µs, 1%	12	70	60	Input	P32A5
IB1011S250	1.03	250	10µs, 1%	10	61	50	Input	P32A5
IB1011S350	1.03	350	10µs, 1%	12	59	50	Input	P32A5
IB1011S1000	1.03	1000	10µs, 1%	10	57	50	Input	P64A6
IB1011S1500	1.03	1500	10µs, 1%	10	50	60	Input	P64A6
ILD1011M1000HVE	1.03	1000	50µs, 2%	18	55	50	Input	PL124A1
ILD1011L950HV	1.03	950	48x (32µs On, 18µs Off), 6.4%	16	55	50	Input	PL124A1
ILD1011M160HV	1.03	160	50µs, 2%	17	53	50	Input	PL32A1
ILD1011M280HV	1.03	280	50µs, 2%	16	51	50	Input	PL84A1
ILD1011M15HV	1.03 - 1.09	15	50µs, 2%	17	46	50	Output	PL32A1
ILD1011M275HV	1.03 - 1.09	275	50µs, 2%	15	53	50	Input & Output	PL84A1
ILD1011M550HV	1.03 - 1.09	550	50µs, 2%	17	49	50	Input & Output	PL84A1
IB1011M1100	1.03 - 1.09	1100	32µs, 2%	9	44	60	Input & Output	P64A6
ILD1011L20HV	1.03 - 1.09	20	48x (32µs On, 18µs Off), 6.4%	15	43	50	None	PL32A1
ILD1011L110HV	1.03 - 1.09	110	48x (32µs On, 18µs Off), 6.4%	15	50	50	Input	PL32A1

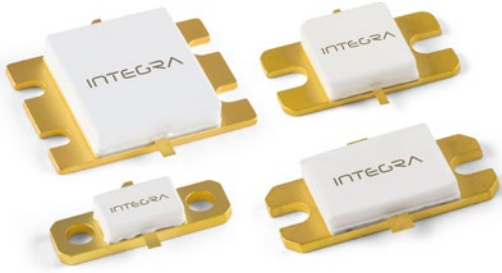
IB = Si-Bipolar, IL = Si-LDMOS, ID=Si-VDMOS

RF Power Transistors for Legacy Designs (Si- Bipolar/LDMOS/VDMOS) *Continued*

Part Number	Frequency Band (GHz)	Output Power (W)	Pulse width & Duty factor	Gain (typ.) (dB)	Efficiency (typ.) (%)	Voltage (V)	Matching	Package
ILD1011L200HV	1.03 - 1.09	200	48x (32µs On, 18µs Off), 6.4%	17	55	50	Input	PL64A1
IB1214M6	1.20 - 1.40	6	100µs, 10%	9	47	28	Input	P32C1
IB1214M32	1.20 - 1.40	32	100µs, 10%	11	54	40	Input	P32A5
IB1214M55	1.20 - 1.40	55	100µs, 10%	9	47	40	Input	P32A5
IB1214M130	1.20 - 1.40	130	300µs, 10%	9	54	50	Input & Output	P32A5
IB1214M150	1.20 - 1.40	150	100µs, 10%	8	50	40	Input & Output	P32A5
IB1214M375	1.20 - 1.40	375	300µs, 10%	9	60	42	Input & Output	P64A28
ILD1214M10	1.20 - 1.40	10	200µs, 10%	13	48	30	Output	PL32A1
ILD1214M60	1.20 - 1.40	60	300µs, 10%	14	48	30	Input & Output	PL44B1
ILD1214L250	1.20 - 1.40	250	1ms, 10%	13	60	30	Input & Output	PL124A1
ILD1214EL40	1.20 - 1.40	40	16ms, 50%	14	42	30	Input	PL32A1
ILD1214EL200	1.20 - 1.40	200	16ms, 50%	12	42	30	Input & Output	PL124A1
IB1416S650	1.45 - 1.55	650	50x (0.5µs On, 1.5µs Off), 1%	8	46	50	Input & Output	P64A24
IB2226MH15	2.25 - 2.55	15	200µs, 10%	10	41	36	Input & Output	P44A3
IB2226M80	2.25 - 2.55	80	200µs, 10%	8	48	36	Input & Output	P32A5
IB2226MH110	2.25 - 2.55	110	200µs, 10%	9	42	36	Input & Output	P44C4
IB2226M160	2.25 - 2.55	160	200µs, 10%	9	54	38	Input & Output	P32A5
IB2226MH160	2.25 - 2.55	160	200µs, 10%	9	46	34	Input & Output	P44C4
IB2729M5	2.70 - 2.90	5	100µs, 10%	8	42	32	Input & Output	P32C3
IB2729M25	2.70 - 2.90	25	100µs, 10%	9	45	36	Input & Output	P32C1
IB2729M90	2.70 - 2.90	90	100µs, 10%	10	51	36	Input & Output	P32A5
IB2729M170	2.70 - 2.90	170	100µs, 10%	10	50	36	Input & Output	P32A5
IB2731MH25	2.70 - 3.10	25	200µs, 10%	10	43	36	Input & Output	P44L1
IB2731M110	2.70 - 3.10	110	200µs, 10%	9	50	36	Input & Output	P32A5
IB2731MH110	2.70 - 3.10	110	200µs, 10%	9	45	36	Input & Output	P44C4
ILD2731M30	2.70 - 3.10	30	100µs, 10%	13	46	28	Input & Output	PL32A1
ILD2731M60	2.70 - 3.10	60	300µs, 10%	11	43	32	Input & Output	PL32A1
ILD2731M140	2.70 - 3.10	140	300µs, 10%	13	45	32	Input & Output	PL64A1
ILD2735M120	2.70 - 3.50	120	300µs, 10%	10	33	32	Input & Output	PL124A1
IB2856S30	2.856	30	12µs, 3%	10	50	40	Input & Output	P32A5
IB2856S65	2.856	65	12µs, 3%	11	53	40	Input & Output	P32A5
IB2856S250	2.856	250	12µs, 3%	11	52	40	Input & Output	P32A5
IB2931MH55	2.90 - 3.10	55	100µs, 10%	9	49	36	Input & Output	P44C3
IB2931MH155	2.90 - 3.10	155	100µs, 10%	9	42	36	Input & Output	P44C4
ILD2933M130	2.90 - 3.30	130	300µs, 10%	11	45	32	Input & Output	PL84A1
IB2934M100	2.90 - 3.40	100	100µs, 10%	8	40	36	Input & Output	P32A5
IB3000S60	3.00	60	12µs, 1%	12	52	40	Input & Output	P32A5
IB3000S200	3.00	200	12µs, 1%	9	48	40	Input & Output	P32A5
IB3134M15	3.10 - 3.40	15	300µs, 10%	8	45	36	Input & Output	P32C3
IB3134M25	3.10 - 3.40	25	300µs, 10%	10	45	36	Input & Output	P32C1
IB3134M70	3.10 - 3.40	70	300µs, 10%	8	50	36	Input & Output	P32A5
IB3134M100	3.10 - 3.40	100	300µs, 10%	10	42	36	Input & Output	P32A5
IB3135MH5	3.10 - 3.50	5	100µs, 10%	8	30	36	Input & Output	P44A3
IB3135MH20	3.10 - 3.50	20	100µs, 10%	8	35	36	Input & Output	P44A3
IB3135MH45	3.10 - 3.50	45	100µs, 10%	9	42	36	Input & Output	P44C3
IB3135MH65	3.10 - 3.50	65	100µs, 10%	8	49	36	Input & Output	P44C4
IB3135MH75	3.10 - 3.50	75	100µs, 10%	9	49	36	Input & Output	P44C4
IB3135MH100	3.10 - 3.50	100	100µs, 10%	9	45	36	Input & Output	P44C4
ILD3135M30	3.10 - 3.50	30	300µs, 10%	10	40	32	Input & Output	PL32A1
ILD3135M120	3.10 - 3.50	120	300µs, 10%	10	41	32	Input & Output	PL84A1
ILD3135M180	3.10 - 3.50	180	300µs, 10%	12	37	32	Input & Output	PL124A2
ILD3135EL20	3.10 - 3.50	20	16ms, 50%	10	35	28	Input & Output	PL32A1

IB = Si-Bipolar, IL = Si-LDMOS, ID=Si-VDMOS

50-Ohm RF Power Transistors



One level up from our pre-matched transistors, Integra offers a suite of space-saving and easy-to-implement 50-ohm (fully-matched) transistors. These ultra-efficient devices enable you to achieve SWaP-C requirements by getting more functional use out of the transistor spot in your block diagrams.

- Solutions up to 12 GHz
- Output power up to 135 W
- Efficiencies up to 55%
- Thermally-efficient metalized packages

50 Ohm RF Power Transistors (GaN/SiC, Si-LDMOS)

PRODUCTS IN DEVELOPMENT

Part Number	Frequency Band (GHz)	Output Power (W)	Pulse width & Duty factor	Gain (typ.) (dB)	Efficiency (typ.) (%)	Voltage (V)	Matching (Ohm)	Package
IGT2731M130	2.70 - 3.10	130	300µs, 10%	15	50	50	50	PL44A1
IGT2731L120	2.70 - 3.10	120	40ms, 50%	13	50	32	50	PM67A1
ILT2731M15	2.70 - 3.10	15	300µs, 10%	12	50	32	50	PL32A2
ILT2731M30	2.70 - 3.10	30	300µs, 10%	12	50	32	50	PL32A2
ILT2731M130	2.70 - 3.10	130	300µs, 10%	12	43	32	50	P64H2
ILT3035M15	3.00 - 3.50	15	300µs, 10%	12	45	32	50	PL32A2
ILT3035M30	3.00 - 3.50	30	300µs, 10%	12	45	32	50	PL32A2
IGT3135M115	3.10 - 3.50	115	300µs, 10%	11	50	40	50	PL44A1
IGT3135M135	3.10 - 3.50	135	300µs, 10%	14	55	46	50	PL44A1
IGT5259CW25	5.20 - 5.90	25	CW	12	48	36	50	PL44C2
IGT5259L50	5.20 - 5.90	50	1ms, 15%	14	43	50	50	PL44A1
IGT5259M80	5.20 - 5.90	80	300µs, 10%	13	48	50	50	PL44A1
IGT5459M25	5.40 - 5.90	25	50µs, 10%	15	43	45	50	PL44A1
IGT8292M50	8.20 - 9.20	50	100µs, 10%	10	40	50	50	PFC77A1
IGT9010M50	9.00 - 10.00	50	100µs, 10%	10	37	50	50	PFC77A1
IGT112M90	11.00 - 12.00	90	150µs, 10%	9	37	50	50	PFC77A1

IG = GaN/SiC, IL = Si-LDMOS

The choice is yours. We'll help you make it.

The best solid-state, high power amplifiers (HPAs), especially those used in critical defense, aerospace, and weather-radar applications, start with the right choice of discrete or integrated RF power transistors. Download our latest tech brief to learn how to zero-in on the best RF transistor technology for your HPA design.

IntegraTech.com/Resources



RF Power Modules



Integra's RF Power Modules are your best way to derive the full benefit of our high-power expertise. Built-in functions include RF matching, gate-pulsing and sequencing (GPS), output noise suppression, temperature compensation, and VSWR protection. Custom and semi-custom design requests are welcome.

- Solutions up to 3.5 GHz
- Output power up to 2400 W
- Efficiencies up to 70%
- Various PCB substrate and packaging options

RF Power Modules (GaN/SiC, Si-Bipolar/LDMOS)

PRODUCTS IN DEVELOPMENT

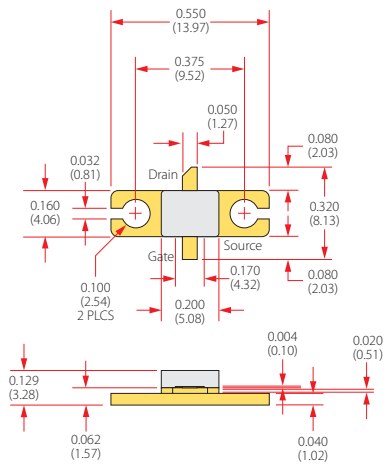
Part Number	Frequency Band (GHz)	Output Power (W)	Pulse width & Duty factor	Gain (typ.) (dB)	Efficiency (typ.) (%)	Voltage (V)	Size
IGNMP0912CW150	0.96 - 1.215	150	CW	30	56	28	5.7 x 2.6 x 0.09 inch
IBP1011L900	0.96 - 1.215	900	48x (32μs On, 18μs Off), 6.4%	10	50	48	3.9 x 2.0 x 0.21 inch
IGNP0912L1KW	0.96 - 1.215	1000	2.5ms, 20%	14	55	50	5.6 x 3.1 x 0.27 inch
IGNP1011M1600	1.03 - 1.09	1600	100μs, 2%	15	60	50	4.8 x 3.4 x 0.27 inch
IGNP1011L2400	1.03 - 1.09	2400	48x (32μs On, 18μs Off), 6.4%	16	70	50	5.5 x 4.0 x 0.26 inch
IGNP1214M1KW-GPS	1.20 - 1.40	1000	300μs, 10%	13	60	50	7.4 x 3.6 x 0.27 inch
IGNP1214M1200	1.20 - 1.40	1200	100μs, 10%	19	63	50	4.2 x 2.4 x 0.26 inch
ILP1214EL200	1.20 - 1.40	200	16ms, 50%	22	45	30	5.9 x 3.0 x 0.21 inch
IBP1214M700	1.20 - 1.40	700	200μs, 10%	9	51	42	3.5 x 1.8 x 0.21 inch
IBP2226M300	2.25 - 2.55	300	200μs, 10%	8	56	34	3.5 x 2.4 x 0.21 inch
IGNP2729M800	2.70 - 2.90	800	300μs, 10%	11	58	50	2.8 x 2.7 x 0.22 inch
IGNP2729M1KW-GPS	2.70 - 2.90	1000	300μs, 10%	11	51	50	5.3 x 3.0 x 0.27 inch
IBP2729M300	2.70 - 2.90	300	100μs, 10%	8	38	36	2.0 x 1.4 x 0.15 inch
IBP2729MH300	2.70 - 2.90	300	100μs, 10%	9	45	36	2.0 x 1.4 x 0.21 inch
IGNP2730M380	2.70 - 3.00	380	150μs, 10%	11	58	50	2.0 x 0.9 x 0.14 inch
IBP2731M200	2.70 - 3.10	200	200μs, 10%	9	45	36	2.0 x 1.4 x 0.15 inch
IGNP2731M400-GPS	2.70 - 3.10	400	300μs, 10%	14	58	48	5.0 x 2.5 x 0.19 inch
ILP2731M260	2.70 - 3.10	260	300μs, 10%	11	35	32	3.4 x 2.2 x 0.22 inch
ILMP2731M260	2.70 - 3.10	260	300μs, 10%	23	35	32	4.7 x 2.2 x 0.22 inch
IBP2731MH200	2.70 - 3.10	200	200μs, 10%	8	40	36	2.0 x 1.4 x 0.21 inch
IBP2931MH270	2.90 - 3.10	270	100μs, 10%	8	40	36	2.0 x 1.4 x 0.15 inch
IBP2931M300	2.90 - 3.10	300	40μs, 5%	9	40	42	2.0 x 1.4 x 0.15 inch
IBP2934M190	2.90 - 3.40	190	100μs, 10%	8	45	36	2.0 x 1.4 x 0.15 inch
IBP3134M25	3.10 - 3.40	25	300μs, 10%	11	45	36	1.0 x 0.8 x 0.15 inch
IBP3134M220	3.10 - 3.40	220	200μs, 10%	13	41	36	2.0 x 1.0 x 0.21 inch
IBP3135M150	3.10 - 3.50	150	100μs, 10%	9	48	36	1.8 x 0.8 x 0.13 inch
IBP3135MH200	3.10 - 3.50	200	100μs, 10%	9	41	36	2.0 x 1.4 x 0.21 inch
ILP3135M240	3.10 - 3.50	240	300μs, 10%	10	37	32	4.2 x 2.3 x 0.21 inch
ILMP3135M240	3.10 - 3.50	240	300μs, 10%	21	32	32	5.4 x 2.3 x 0.22 inch
IGNP3135M500	3.10 - 3.50	500	300μs, 10%	13	50	50	3.2 x 2.9 x 0.27 inch

IG = GaN/SiC, IB = Si-Bipolar, IL = Si-LDMOS

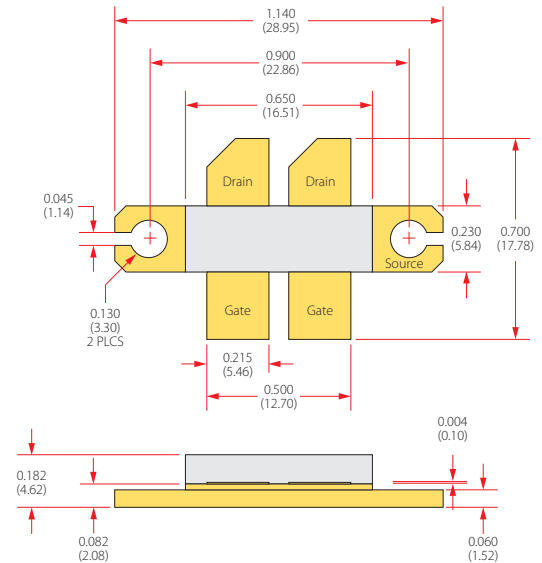
L-BAND

S-BAND

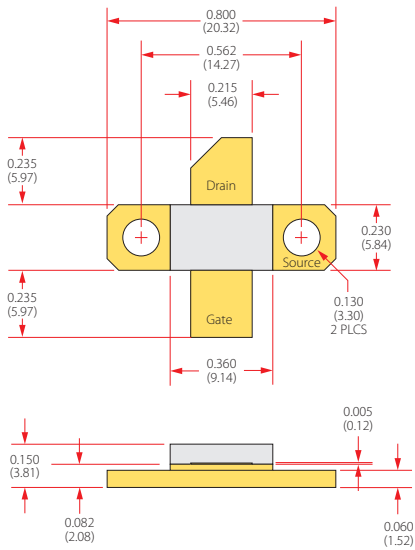
PL21A1



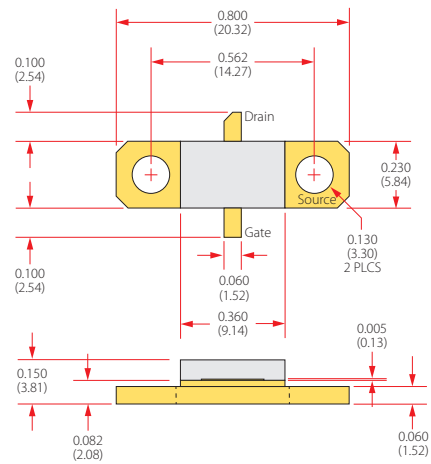
PL22D1



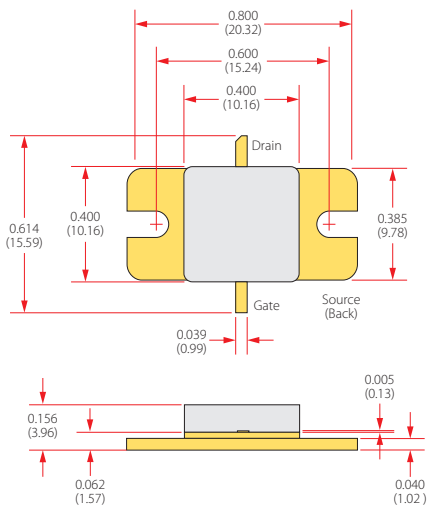
PL32A1



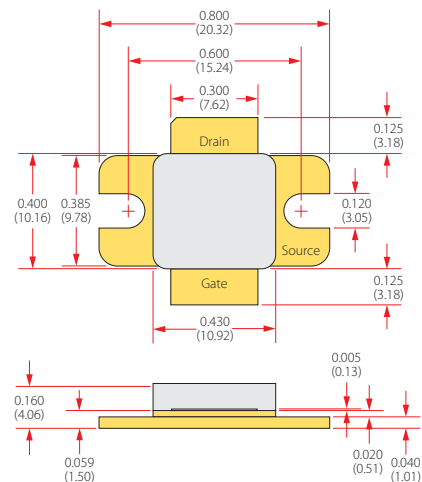
PL32A2



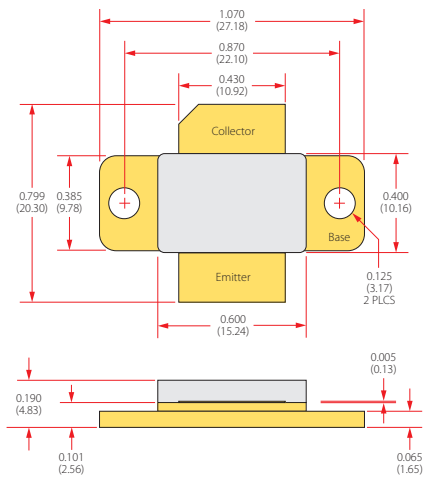
PL44A1/PL44C2



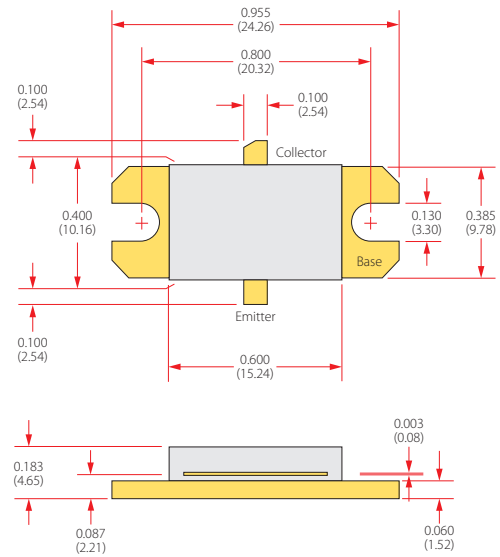
PL44C1



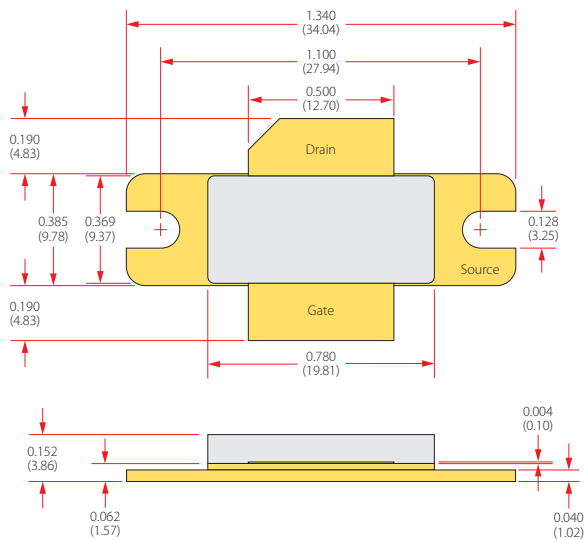
PL64A1



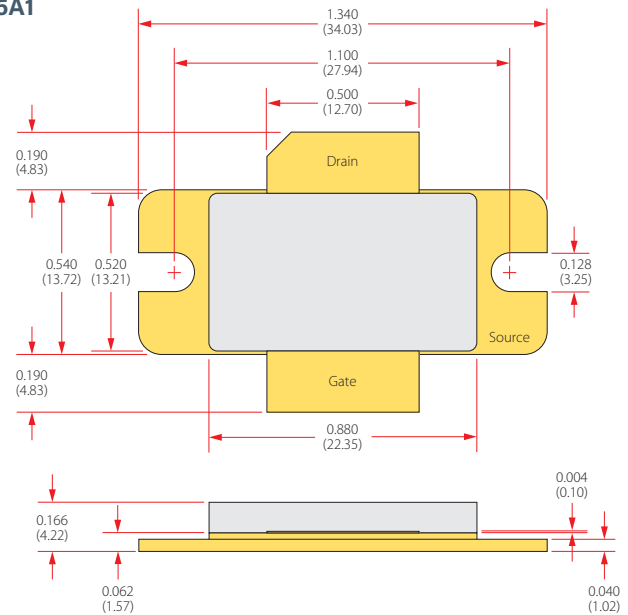
P64H2



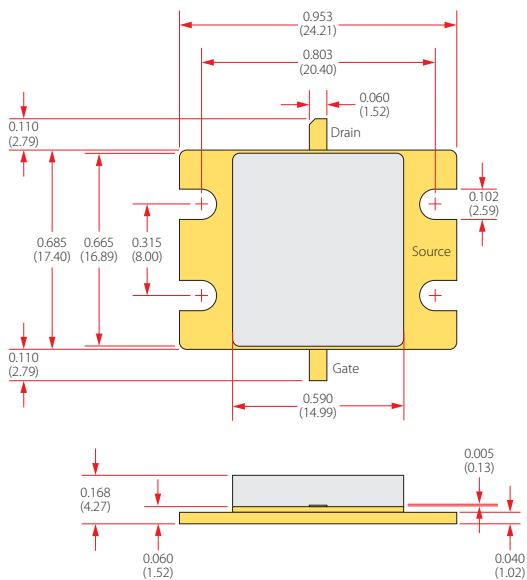
PL84A1



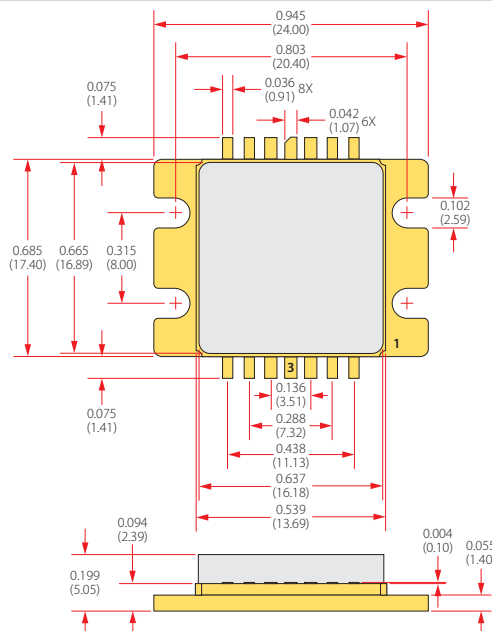
PL95A1



PM67A1



PFC77A1



Please confirm lead trim/dimensions with Integra.

Inch (mm)



IntegraTech.com

Submit an RFQ:

IntegraTech.com/RFQ

Submit a support question:

IntegraTech.com/Support

Call customer support:

310.606.0855 x131

Contact Sales:

Sales@IntegraTech.com