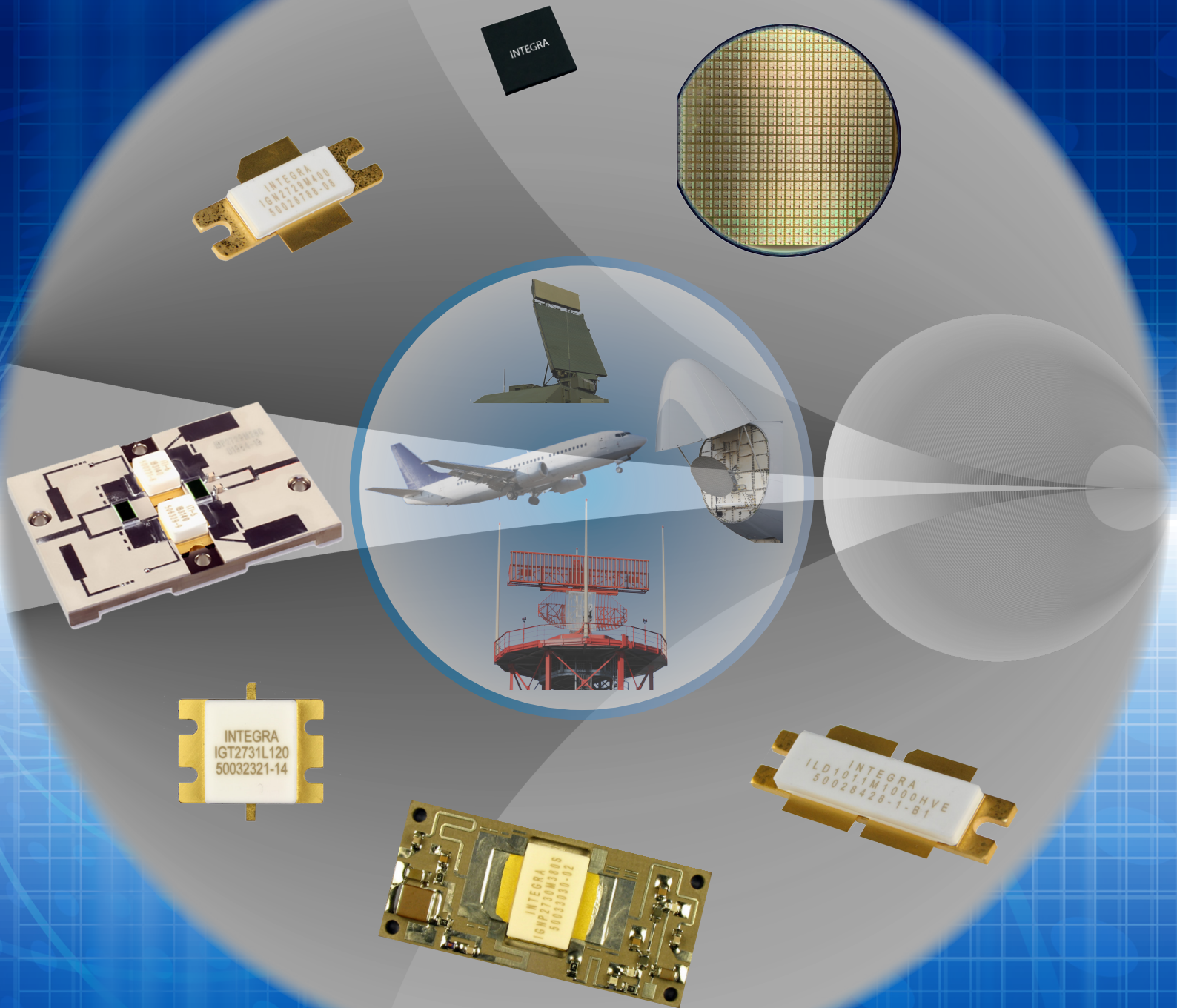




High-Power RF Semiconductor Solutions

Powering your RF Applications

Integra
TECHNOLOGIES, INC.

- **High Performance Portfolio Optimized for Integra's Core Markets**
 - Multi-stage and multi-band power pallets
 - High-power RF transistors
 - Sub-system amplifiers
 - Designed specifically for Radar, Avionics, and Data link markets
 - Frequencies covering VHF, UHF, L-Band, S-Band, and C-band
- **Standard and Custom RF Power Pallets and Transistors**
 - Pallets ranging up to 2.0kW
 - Transistors ranging up to 1.4kW
 - Standard and custom options available
- **Widest Range of RF Power Semiconductor Technologies**
 - GaN/SiC, Si-LDMOS, Si-VDMOS, and Si-Bipolar
 - Technology portfolio optimized to deliver best RF power performance
- **Technology Roadmap Expansion**
 - X-band portfolio in 2017
 - Plastic package options
- **Domestic internal wafer fab and external foundry partners**
 - Internal wafer fab and external foundry partners
- **Deep Domain and Applications Knowledge**
 - Reference designs ranging from transistors to full amplifier pallets
 - Product sample and evaluation kits
 - 100% Custom testing with serialized RF data supplied
- **Proven Record of Success**
 - 20-year history of delivering high-power products for production platforms fielded worldwide
 - ISO:9001 2008 Certified



GaN/SiC Transistor Products

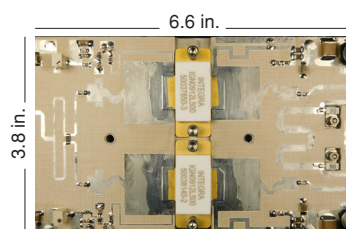
Part Number	Frequency Band	Output Power (minimum)	Pulse width & Duty factor	Gain (typical)	Efficiency (typical)	Voltage	Matching	Package
VHF/UHF and Broadband Communication								
IGN450M160	420-450 MHz	160W	100µs, 10%	22dB	77%	50V	Input	PL44C1
IGN0110UM100	100-1000 MHz	100W	CW	13dB	55%	28V	None	PL22D1
IGN0160UM10	100-6000 MHz	10W	CW	18dB	50%	50V	None	PL21A1
L-band Avionics and L-band Radar								
IGN1030M40	1030 MHz	40W	300µs, 10%	22dB	65%	50V	Input	PL32A2
IGN1030L800	1030 MHz	800W	48x (32µs On, 18µs Off), 6.4%	17dB	65%	50V	Input	PL84A1
IGN1030L1000	1030 MHz	1000W	48x (32µs On, 18µs Off), 6.4%	17dB	65%	50V	Input	PL84A1
IGN1011M400	1030-1090 MHz	400W	128µs, 2%	16dB	65%	50V	Input	PL64A1
IGN1011M600	1030-1090 MHz	600W	128µs, 2%	16dB	65%	50V	Input	PL64A1
IGN1011M800	1030-1090 MHz	800W	128µs, 2%	16dB	60%	50V	Input	PL84A1
IGN1090M800	1090 MHz	800W	128µs, 2%	17dB	62%	50V	Input	PL84A1
IGN1011L60	1030-1090 MHz	60W	48x (32µs On, 18µs Off), 6.4%	19dB	65%	50V	Input	PL32A2
IGN1011L70	1030-1090 MHz	70W	48x (32µs On, 18µs Off), 6.4%	22dB	65%	50V	Input	PL32A2
IGN1011L120	1030-1090 MHz	120W	48x (32µs On, 18µs Off), 6.4%	20dB	60%	50V	Input	PL44C1
IGN1011L1000	1030-1090 MHz	1000W	48x (32µs On, 18µs Off), 6.4%	16dB	60%	50V	Input	PL84A1
IGN1011L1200	1030-1090 MHz	1200W	48x (32µs On, 18µs Off), 6.4%	17dB	75%	50V	Input	PL84A1
IGN1012S30	1025-1150 MHz	30W	32µs, 2%	19dB	55%	50V	Input	PL32A2
IGN1012S40	1025-1150 MHz	40W	32µs, 2%	22dB	65%	50V	Input	PL32A2
IGN1012L40	1025-1150 MHz	40W	48x (32µs On, 18µs Off), 6.4%	21dB	60%	50V	Input	PL32A2
IGN1012S1000	1025-1150 MHz	1000W	32µs, 2%	16dB	50%	50V	Input	PL84A1
IGN0912L45	960-1215 MHz	45W	444x (7µs On, 6µs Off), 22.7%	21dB	57%	50V	Input	PL32A2
IGN0912L125A	960-1215 MHz	125W	444x (7µs On, 6µs Off), 22.7%	18dB	55%	50V	Input & Output	PL44C1
IGN0912L250	960-1215 MHz	250W	444x (7µs On, 6µs Off), 22.7%	16dB	60%	50V	Input & Output	PL44C1
IGN0912L500	960-1215 MHz	500W	444x (7µs On, 6µs Off), 22.7%	15dB	65%	50V	Input & Output	PL95A1
IGN0912CW300	960-1215 MHz	300W	CW	14dB	70%	36V	Input & Output	PL95A1
IGN1214M120	1200-1400 MHz	120W	300µs, 10%	19dB	60%	50V	Input & Output	PL44C1
IGN1214M250	1200-1400 MHz	250W	300µs, 10%	16dB	60%	50V	Input & Output	PL44C1
IGN1214M380C	1210-1400 MHz	380W	150µs, 10%	20dB	54%	50V	Input	PL44C1
IGN1214M500	1200-1400 MHz	500W	300µs, 10%	14dB	60%	50V	Input & Output	PL95A1
IGN1214M650	1200-1400 MHz	650W	300µs, 10%	14dB	63%	60V	Input & Output	PL95A1
IGN1214M650A	1200-1400 MHz	650W	300µs, 10%	13dB	72%	50V	Input & Output	PL95A1
IGN1214S1000	1200-1400 MHz	1000W	5µs, 1.5%	14dB	62%	65V	Input & Output	PL95A1
IGN1214L15	1200-1400 MHz	15W	5ms, 30%	16dB	55%	50V	Input & Output	PL32A2
IGN1214L30	1200-1400 MHz	30W	5ms, 30%	16dB	60%	42V	Input & Output	PL32A2
IGN1214L125	1200-1400 MHz	125W	2ms, 20%	18dB	55%	50V	Input & Output	PL44C1
IGN1214L380	1200-1400 MHz	380W	5ms, 30%	12dB	60%	42V	Input & Output	PL95A1
S-band Radar and S-band ISM								
IGN2856S500	2856 MHz	500W	12µs, 3%	12dB	60%	50V	Input & Output	PL64A1
IGN2429M400	2400-2900 MHz	400W	300µs, 10%	13dB	50%	48V	Input & Output	PL84A1
IGN2729M250C	2700-2900 MHz	250W	300µs, 10%	11dB	59%	50V	Input & Output	PL64A1
IGN2729M400	2700-2900 MHz	400W	300µs, 10%	11dB	58%	50V	Input & Output	PL64A1
IGN2729M500	2700-2900 MHz	500W	300µs, 10%	12dB	60%	50V	Input & Output	PL84A1
IGN2998S500	2998 MHz	500W	8µs, 1%	12dB	55%	50V	Input & Output	PL64A1
IGN2730M65	2700-3000 MHz	65W	300µs, 20%	15dB	58%	32V	Input & Output	PL32A1
IGN2731M5	2700-3100 MHz	5W	300µs, 10%	15dB	48%	40V	Input	PL32A1
IGN2731M80	2700-3100 MHz	80W	100µs, 10%	14dB	50%	40V	Input & Output	PL32A1
IGT2731M130	2700-3100 MHz	130W	300µs, 10%	14dB	55%	50V	50-Ohm	PL44A1
IGN2731M200	2700-3100 MHz	200W	300µs, 10%	14dB	54%	44V	Input & Output	PL64A1
IGT2731L120	2700-3100 MHz	120W	40ms, 50%	13dB	50%	32V	50-Ohm	PM67A1
IGN2731L200	2700-3100 MHz	200W	3ms, 30%	14dB	54%	42V	Input & Output	PL64A1
IGN2732M10	2700-3200 MHz	10W	100µs, 10%	16dB	48%	40V	Input & Output	PL32A2
IGN2932M75	2900-3200 MHz	75W	100µs, 10%	13dB	55%	45V	Input & Output	PL32A1
IGT2735M30	2700-3500 MHz	30W	300µs, 10%	12dB	50%	32V	50-Ohm	PL44A1
IGN2735M250	2700-3500 MHz	250W	300µs, 10%	10dB	55%	32V	Input & Output	PL84A1
IGN3135M135	3100-3500 MHz	135W	300µs, 10%	13dB	55%	50V	Input & Output	PL32A1
IGT3135M135	3100-3500 MHz	135W	300µs, 10%	14dB	55%	46V	50-Ohm	PL44A1
IGN3135M250	3100-3500 MHz	250W	300µs, 10%	13dB	50%	50V	Input & Output	PL44C1
IGN3135L12	3100-3500 MHz	12W	3ms, 30%	16dB	50%	46V	Input	PL32A2
IGN3135L115	3100-3500 MHz	115W	3ms, 30%	14dB	51%	46V	Input & Output	PL44C1
C-band Radar								
IGN3842M130	3800-4200 MHz	130W	100µs, 2%	14dB	57%	50V	Input & Output	PL32A1
IGN4450M50	4400-5000 MHz	50W	300µs, 10%	15dB	55%	36V	Input & Output	PL32A2
IGN4450M90	4400-5000 MHz	90W	300µs, 10%	13dB	55%	36V	Input & Output	PL32A1
IGN4450CW50	4400-5000 MHz	50W	CW	12dB	58%	24V	Input & Output	PL32A1
IGN5259M10	5200-5900 MHz	10W	300µs, 10%	13dB	55%	36V	Input & Output	PL32A2
IGN5259M15	5200-5900 MHz	15W	300µs, 10%	15dB	50%	36V	Input & Output	PL32A2
IGN5259M20	5200-5900 MHz	20W	300µs, 10%	12dB	60%	36V	Input & Output	PL32A2
IGT5259M25	5200-5900 MHz	25W	300µs, 10%	13dB	50%	36V	50-Ohm	PL44A1
IGN5259M40	5200-5900 MHz	40W	300µs, 10%	13dB	50%	36V	Input & Output	PL32A2
IGN5259M80	5200-5900 MHz	80W	300µs, 10%	13dB	50%	36V	Input & Output	PL32A1
IGN5259CW50	5200-5900 MHz	50W	CW	13dB	54%	24V	Input & Output	PL32A1

Note on package dimensions: Please confirm lead trim/dimensions with Integra.

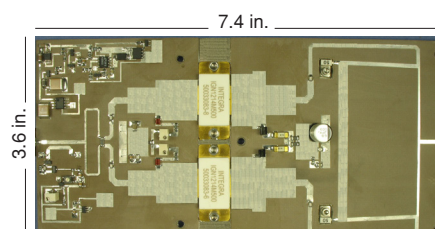
Note: Rows in Bold denote new products currently in engineering development

Featured Pallets and Modules

Part Number	Frequency Band	Output Power (minimum)	Pulse width & Duty factor	Gain (typical)	Efficiency (typical)	Voltage	Size
L-band Avionics and L-band Radar							
IGNP1011M1600	1030-1090 MHz	1600W	100µs, 2%	15dB	55%	50V	7.4 x 3.5 x 0.27 inch
IGNP0912L1KW	960-1215 MHz	1000W	444x (7µs On, 6µs Off), 22.7%	14dB	55%	50V	6.6 x 3.8 x 0.27 inch
IGNP1214M1KW-GPS	1200-1400 MHz	1000W	300µs, 10%	13dB	60%	50V	7.4 x 3.6 x 0.27 inch
IGNP1214M1300-GPS	1200-1400 MHz	1300W	300µs, 10%	12dB	55%	50V	7.4 x 3.7 x 0.27 inch
ILP1214EL200	1200-1400 MHz	200W	16ms, 50%	22dB	45%	30V	5.91 x 2.95 x 0.21 inch



IGNP0912L1KW

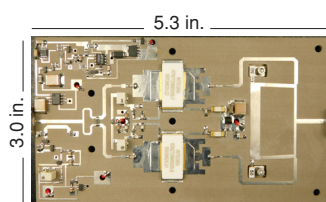


IGNP1214M1KW-GPS

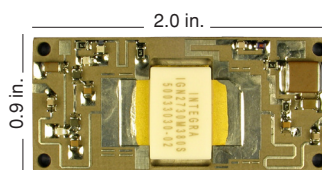
IBPM1030S1K	1030 MHz	1000W	10µs, 1%	39dB	41%	50V	6.3 x 3.0 x 0.21 inch
IBP1011L900	1030 MHz	900W	48x (32µs On, 18µs Off), 6.4%	10dB	50%	48V	3.9 x 2.0 x 0.21 inch
IBP1214M700	1200-1400 MHz	700W	200µs, 10%	9dB	51%	42V	3.54 x 1.77 x 0.21 inch

S-band Radar

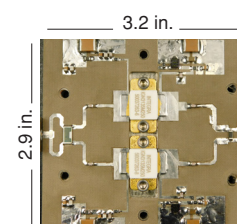
IGNP2729M800	2700-2900 MHz	800W	300us, 10%	11dB	58%	50V	2.8 x 2.7 x 0.22 inch
IGNP2729M1KW-GPS	2700-2900 MHz	1000W	300µs, 10%	11dB	51%	50V	5.3 x 3.0 x 0.27 inch
IGNP2730M380	2700-3000 MHz	380W	300µs, 10%	14dB	60%	50V	2.0 x 0.9 x 0.23 inch
IGNP2731M400-GPS	2700-3100 MHz	400W	300µs, 10%	14dB	58%	48V	5.0 x 2.5 x 0.19 inch
IGNP2735M500	2700-3500 MHz	500W	300µs, 10%	10dB	54%	32V	3.9 x 3.4 x 0.27 inch
IGNP3135M500	3100-3500 MHz	500W	300µs, 10%	13dB	50%	50V	3.2 x 2.9 x 0.27 inch



IGNP2729M1KW-GPS



IGNP2730M380



IGNP3135M500

ILP2731M260	2700-3100 MHz	260W	300µs, 10%	11dB	35%	32V	3.40 x 2.15 x 0.22 inch
ILMP2731M260	2700-3100 MHz	260W	300µs, 10%	23dB	35%	32V	4.70 x 2.15 x 0.22 inch
ILP3135M240	3100-3500 MHz	240W	300µs, 10%	10dB	37%	32V	4.20 x 2.28 x 0.21 inch
ILMP3135M240	3100-3500 MHz	240W	300µs, 10%	21dB	32%	32V	5.40 x 2.28 x 0.22 inch
IBP2226M300	2250-2550 MHz	300W	200µs, 10%	8dB	56%	34V	3.54 x 2.36 x 0.21 inch
IBP2729M300	2700-2900 MHz	300W	100µs, 10%	8dB	38%	36V	2.00 x 1.41 x 0.15 inch
IBP2729MH300	2700-2900 MHz	300W	100µs, 10%	9dB	45%	36V	2.00 x 1.41 x 0.21 inch
IBP2731M200	2700-3100 MHz	200W	200µs, 10%	9dB	45%	36V	2.00 x 1.41 x 0.15 inch
IBP2731MH200	2700-3100 MHz	200W	200µs, 10%	8dB	40%	36V	2.00 x 1.41 x 0.21 inch
IBP2931MH270	2900-3100 MHz	270W	100µs, 10%	8dB	40%	36V	2.00 x 1.41 x 0.15 inch
IBP2931M300	2900-3100 MHz	300W	40µs, 5%	9dB	40%	42V	2.00 x 1.41 x 0.15 inch
IBP2934M190	2900-3400 MHz	190W	100µs, 10%	8dB	45%	36V	2.00 x 1.41 x 0.15 inch
IBP3134M25	3100-3400 MHz	25W	300µs, 10%	11dB	45%	36V	1.00 x 0.75 x 0.15 inch
IBP3134M220	3100-3400 MHz	220W	200µs, 10%	9dB	41%	36V	2.00 x 1.00 x 0.21 inch
IBP3135M150	3100-3500 MHz	150W	100µs, 10%	9dB	48%	36V	1.75 x 0.80 x 0.13 inch
IBP31315MH200	3100-3500 MHz	200W	100µs, 10%	9dB	41%	36V	2.00 x 1.41 x 0.21 inch

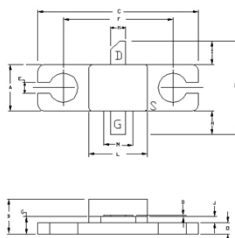
C-band Radar

IGNP4450M100	4400-5000 MHz	100W	300µs, 10%	14dB	45%	36V	2.6 x 2.2 x 0.22 inch
IGNP4450M180	4400-5000 MHz	180W	300µs, 10%	13dB	55%	36V	2.6 x 2.2 x 0.22 inch
IGNP5259M150	5200-5900 MHz	150W	300µs, 10%	13dB	45%	36V	2.6 x 2.2 x 0.22 inch

Note: IBP, IBPM = bipolar pallets. ILP, ILMP = LDMOS pallets, IGNP = GaN/SiC pallets

Note: Rows in Bold denote new products currently in engineering development

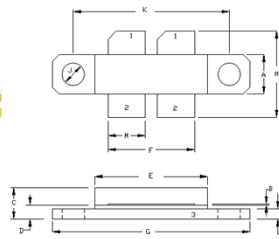
PL21A1



DIM	INCHES	MIN	MAX	MILLIMETERS	MIN	MAX
A	0.155	0.165	0.175	3.94	4.19	
B	0.003	0.006	0.007	0.15	0.18	
C	0.545	0.555	0.565	13.94	14.09	
D	0.112	0.146	0.284	2.70	3.70	
E	0.057	0.057	0.063	1.44	1.60	
F	0.370	0.380	0.400	9.40	10.16	
G	0.057	0.067	0.145	1.45	3.68	
H	0.060	0.100	0.152	1.52	3.84	
I	0.060	0.100	0.152	1.52	3.84	
J	0.015	0.015	0.015	0.38	0.38	
K	0.045	0.055	0.14	1.14	3.54	
L	0.125	0.125	0.125	3.18	3.18	
M	0.165	0.175	0.185	4.19	4.69	
N	0.315	0.325	0.335	8.00	8.50	
O	0.025	0.045	0.09	1.14	2.29	

PIN SCHEDULE	
1	BRN
2	SOURCE
3	GATE

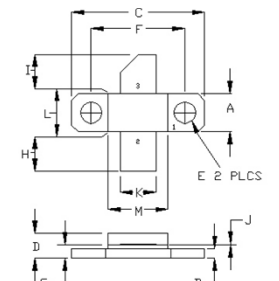
PL22D1



DIM	INCHES	MIN	MAX	MILLIMETERS	MIN	MAX
A	0.025	0.025	0.025	0.64	0.64	
B	0.003	0.003	0.003	0.08	0.08	
C	0.077	0.077	0.077	1.95	1.95	
D	0.077	0.077	0.077	1.95	1.95	
E	0.445	0.445	0.445	11.30	11.30	
F	0.445	0.445	0.445	11.30	11.30	
G	0.135	0.135	0.135	3.43	3.43	
H	0.445	0.445	0.445	11.30	11.30	
I	0.025	0.025	0.025	0.64	0.64	
J	0.025	0.025	0.025	0.64	0.64	
K	0.025	0.025	0.025	0.64	0.64	
L	0.025	0.025	0.025	0.64	0.64	
M	0.025	0.025	0.025	0.64	0.64	

PIN SCHEDULE	
1	BRN
2	GATE
3	SOURCE

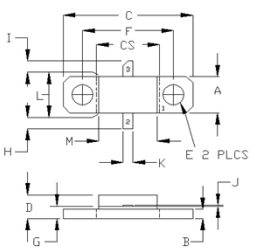
PL32A1



DIM	INCHES	MIN	MAX	MILLIMETERS	MIN	MAX
A	0.225	0.235	0.245	5.71	5.96	
B	0.055	0.055	0.055	1.40	1.40	
C	0.725	0.725	0.725	18.41	18.41	
D	0.140	0.160	0.160	3.55	4.06	
E	0.125	0.125	0.125	3.18	3.18	
F	0.557	0.567	0.577	14.14	14.65	
G	0.077	0.077	0.077	1.95	1.95	
H	0.230	0.240	0.240	5.84	6.09	
I	0.230	0.240	0.240	5.84	6.09	
J	0.004	0.006	0.010	0.15	0.25	
K	0.210	0.220	0.230	5.33	5.59	
L	0.625	0.635	0.645	15.88	16.39	
M	0.355	0.365	0.375	9.01	9.27	

PIN SCHEDULE	
1	SOURCE
2	GATE
3	BRN

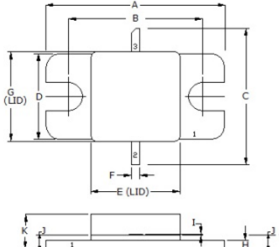
PL32A2



DIM	INCHES	MIN	MAX	MILLIMETERS	MIN	MAX
A	0.225	0.235	0.245	5.71	5.96	
B	0.055	0.055	0.055	1.40	1.40	
C	0.725	0.725	0.725	18.41	18.41	
D	0.140	0.160	0.160	3.55	4.06	
E	0.125	0.125	0.125	3.18	3.18	
F	0.557	0.567	0.577	14.14	14.65	
G	0.077	0.077	0.077	1.95	1.95	
H	0.093	0.107	0.107	2.36	2.72	
I	0.093	0.107	0.107	2.36	2.72	
J	0.004	0.006	0.010	0.15	0.25	
K	0.055	0.055	0.055	1.40	1.40	
L	0.225	0.235	0.245	5.71	5.96	
M	0.355	0.365	0.375	9.01	9.27	

PIN SCHEDULE	
1	SOURCE
2	GATE
3	BRN

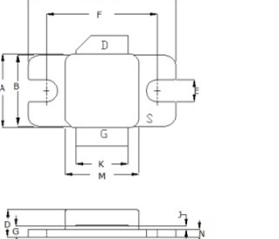
PL44A1



DIM	INCHES	MIN	MAX	MILLIMETERS	MIN	MAX
A	0.725	0.735	0.745	18.41	18.70	
B	0.455	0.465	0.475	11.56	11.92	
C	0.544	0.544	0.544	13.82	13.82	
D	0.380	0.390	0.400	9.65	10.16	
E	0.393	0.403	0.413	9.98	10.39	
F	0.034	0.044	0.054	0.86	1.37	
G	0.393	0.403	0.413	9.98	10.39	
H	0.034	0.044	0.054	0.86	1.37	
I	0.034	0.044	0.054	0.86	1.37	
J	0.034	0.044	0.054	0.86	1.37	
K	0.034	0.044	0.054	0.86	1.37	
L	0.393	0.403	0.413	9.98	10.39	
M	0.405	0.415	0.425	10.29	10.80	

PIN SCHEDULE	
1	SOURCE
2	GATE
3	BRN

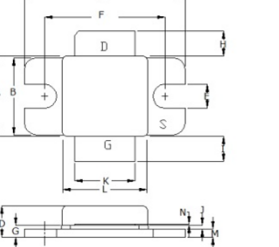
PL44B1



DIM	INCHES	MIN	MAX	MILLIMETERS	MIN	MAX
A	0.395	0.405	0.415	10.03	10.29	
B	0.380	0.390	0.400	9.65	10.16	
C	0.725	0.735	0.745	18.41	18.70	
D	0.115	0.125	0.135	2.92	3.43	
E	0.595	0.605	0.615	15.11	15.37	
F	0.097	0.097	0.107	2.46	2.72	
G	0.097	0.107	0.107	2.46	2.72	
H	0.097	0.107	0.107	2.46	2.72	
I	0.097	0.107	0.107	2.46	2.72	
J	0.097	0.107	0.107	2.46	2.72	
K	0.097	0.107	0.107	2.46	2.72	
L	0.097	0.107	0.107	2.46	2.72	
M	0.097	0.107	0.107	2.46	2.72	
N	0.097	0.107	0.107	2.46	2.72	

PIN SCHEDULE	
1	BRN
2	SOURCE
3	GATE

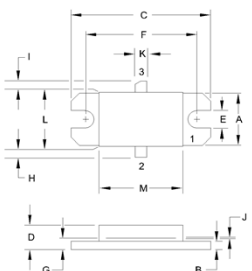
PL44C1



DIM	INCHES	MIN	MAX	MILLIMETERS	MIN	MAX
A	0.395	0.405	0.415	10.03	10.29	
B	0.380	0.390	0.400	9.65	10.16	
C	0.725	0.735	0.745	18.41	18.70	
D	0.115	0.125	0.135	2.92	3.43	
E	0.595	0.605	0.615	15.11	15.37	
F	0.097	0.097	0.107	2.46	2.72	
G	0.097	0.107	0.107	2.46	2.72	
H	0.097	0.107	0.107	2.46	2.72	
I	0.097	0.107	0.107	2.46	2.72	
J	0.097	0.107	0.107	2.46	2.72	
K	0.097	0.107	0.107	2.46	2.72	
L	0.097	0.107	0.107	2.46	2.72	
M	0.097	0.107	0.107	2.46	2.72	
N	0.097	0.107	0.107	2.46	2.72	

PIN SCHEDULE	
1	BRN
2	SOURCE
3	GATE

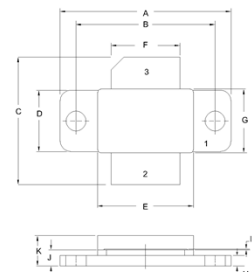
P64H2



DIM	INCHES	MIN	MAX	MILLIMETERS	MIN	MAX
A	0.380	0.390	0.400	9.65	10.16	
B	0.005	0.005	0.005	0.13	0.13	
C	0.005	0.005	0.005	0.13	0.13	
D	0.125	0.135	0.145	3.18	3.43	
E	0.005	0.005	0.005	0.13	0.13	
F	0.005	0.005	0.005	0.13	0.13	
G	0.005	0.005	0.005	0.13	0.13	
H	0.005	0.005	0.005	0.13	0.13	
I	0.005	0.005	0.005	0.13	0.13	
J	0.005	0.005	0.005	0.13	0.13	
K	0.005	0.005	0.005	0.13	0.13	
L	0.005	0.005	0.005	0.13	0.13	
M	0.005	0.005	0.005	0.13	0.13	
N	0.005	0.005	0.005	0.13	0.13	

PIN SCHEDULE	
1	BRN
2	EMITTER
3	COLLECTOR

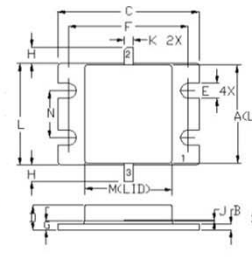
PL64A1



DIM	INCHES	MIN	MAX	MILLIMETERS	MIN	MAX
A	0.005	0.005	0.005	0.13	0.13	
B	0.005	0.005	0.005	0.13	0.13	
C	0.005	0.005	0.005	0.13	0.13	
D	0.005	0.005	0.005	0.13	0.13	
E	0.005	0.005	0.005	0.13	0.13	
F	0.005	0.005	0.005	0.13	0.13	
G	0.005	0.005	0.005	0.13	0.13	
H	0.005	0.005	0.005	0.13	0.13	
I	0.005	0.005	0.005	0.13	0.13	
J	0.005	0.005	0.005	0.13	0.13	
K	0.005	0.005	0.005	0.13	0.13	
L	0.005	0.005	0.005	0.13	0.13	
M	0.005	0.005	0.005	0.13	0.13	
N	0.005	0.005	0.005	0.13	0.13	

PIN SCHEDULE	
1	BRN
2	EMITTER
3	COLLECTOR

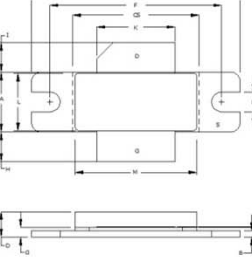
PM67A1



DIM	INCHES	MIN	MAX	MILLIMETERS	MIN	MAX
A	0.650	0.672	0.672	16.76	17.06	
B	0.035	0.045	0.045	0.89	1.14	
C	0.240	0.250	0.250	6.10	6.35	
D	0.167	0.167	0.167	4.29	4.29	
E	0.057	0.057	0.057	1.45	1.45	
F	0.050	0.050	0.050	1.27	1.27	
G	0.057	0.057	0.057	1.45	1.45	
H	0.057	0.057	0.057	1.45	1.45	
I	0.057	0.057	0.057	1.45	1.45	
J	0.057	0.057	0.057	1.45	1.45	
K	0.057	0.057	0.057	1.45	1.45	
L	0.057	0.057	0.057	1.45	1.45	
M	0.057	0.057	0.057	1.45	1.45	
N	0.057	0.057	0.057	1.45	1.45	
O	0.057	0.057	0.057	1.45	1.45	

PIN SCHEDULE	
1	SOURCE
2	BRN
3	GATE

PL84A1



	MIN	MAX	MIN	MAX
H	0.380	0.390	9.65	9.90
	0.035	0.045	0.89	1.12
	1.335	1.345	33.90	34.16
S	0.805	0.815	20.44	20.70
	0.139	0.166	3.53	4.21
	0.123	0.133	3.12	3.37
	1.095	1.105	27.81	28.06
	0.057	0.067	1.44	1.70
	0.170	0.210	4.32	5.33
	0.170	0.210	4.32	5.33
	0.003	0.006	0.08	0.15
	0.495	0.505	12.57	12.83
	0.364	0.374	9.24	9.49
	0.772	0.788	19.60	20.01
N SCHEDULE				
	DRAIN			
	SOURCE			

Si LDMOS Transistor Products

Part Number	Frequency Band	Output Power (minimum)	Pulse width & Duty factor	Gain (typical)	Efficiency (typical)	Voltage	Matching	Package
UHF and Broadband Communication								
ILD0506EL350	480-610 MHz	350W	15ms, 33%	14dB	53%	45V	Input	PL124A1
L-band Avionics and L-band Radar								
ILD1011M1000HVE	1030 MHz	1000W	50µs, 2%	18dB	55%	50V	Input	PL124A1
ILD1011L950HV	1030 MHz	950W	48x (32µs On, 18µs Off), 6.4%	16dB	55%	50V	Input	PL124A1
ILD1011M160HV	1030/1090 MHz	160W	50µs, 2%	17dB	53%	50V	Input	PL32A1
ILD1011M280HV	1030/1090 MHz	280W	50µs, 2%	16dB	51%	50V	Input	PL84A1
ILD1011M15HV	1030-1090 MHz	15W	50µs, 2%	17dB	46%	50V	Output	PL32A1
ILD1011M275HV	1030-1090 MHz	275W	50µs, 2%	15dB	53%	50V	Input & Output	PL84A1
ILD1011M550HV	1030-1090 MHz	550W	50µs, 2%	17dB	49%	50V	Input & Output	PL84A1
ILD1011L20HV	1030-1090 MHz	20W	48x (32µs On, 18µs Off), 6.4%	15dB	43%	50V	None	PL32A1
ILD0912M110HV	1030-1090 MHz	110W	48x (32µs On, 18µs Off), 6.4%	15dB	50%	50V	Input	PL32A1
ILD1011L200HV	1030-1090 MHz	200W	48x (32µs On, 18µs Off), 6.4%	17dB	55%	50V	Input	PL64A1
ILD1012S500HV	1025-1150 MHz	500W	10µs, 1%	16dB	49%	50V	Input & Output	PL84A1
ILD0912M15HV	960-1215 MHz	15W	10µs, 10%	14dB	44%	50V	None	PL32A1
ILD0912M60	960-1215 MHz	60W	10µs, 10%	17dB	48%	30V	Input & Output	PL44B1
ILD0912M150HV	960-1215 MHz	150W	10µs, 10%	13dB	55%	50V	Input & Output	PL84A1
ILD0912M400HV	960-1215 MHz	400W	10µs, 10%	9dB	46%	50V	Input & Output	PL95A1
ILD1214M10	1200-1400 MHz	10W	200µs, 10%	13dB	48%	30V	Output	PL32A1
ILD1214M60	1200-1400 MHz	60W	300µs, 10%	14dB	48%	30V	Input & Output	PL44B1
ILD1214L250	1200-1400 MHz	250W	1ms, 10%	13dB	60%	30V	Input & Output	PL124A1
ILD1214EL40	1200-1400 MHz	40W	16ms, 50%	14dB	42%	30V	Input	PL32A1
ILD1214EL200	1200-1400 MHz	200W	16ms, 50%	12dB	42%	30V	Input & Output	PL124A1

S-band Radar

ILT2731M15	2700-3100 MHz	15W	300µs, 10%	12dB	50%	32V	50-Ohm	PL32A2
ILD2731M30	2700-3100 MHz	30W	100µs, 10%	13dB	46%	28V	Input & Output	PL32A1
ILT2731M30	2700-3100 MHz	30W	300µs, 10%	12dB	50%	32V	50-Ohm	PL32A2
ILD2731M60	2700-3100 MHz	60W	300µs, 10%	11dB	43%	32V	Input & Output	PL32A1
ILT2731M130	2700-3100 MHz	130W	300µs, 10%	12dB	43%	32V	50-Ohm	P64H2
ILD2731M140	2700-3100 MHz	140W	300µs, 10%	13dB	45%	32V	Input & Output	PL64A1
ILD2735M120	2700-3500 MHz	120W	300µs, 10%	10dB	33%	32V	Input & Output	PL124A1
ILD2933M130	2900-3300 MHz	130W	300µs, 10%	11dB	45%	32V	Input & Output	PL84A1
ILT3035M15	3000-3500 MHz	15W	300µs, 10%	12dB	45%	32V	50-Ohm	PL32A2
ILT3035M30	3000-3500 MHz	30W	300µs, 10%	12dB	45%	32V	50-Ohm	PL32A2
ILD3135M30	3100-3500 MHz	30W	300µs, 10%	10dB	40%	32V	Input & Output	PL32A1
ILD3135M120	3100-3500 MHz	120W	300µs, 10%	10dB	41%	32V	Input & Output	PL84A1
ILD3135M180	3100-3500 MHz	180W	300µs, 10%	12dB	37%	32V	Input & Output	PL124A2
ILD3135EL20	3100-3500 MHz	20W	16ms, 50%	10dB	35%	28V	Input & Output	PL32A1

Note on package dimensions: Please confirm lead trim/dimensions with Integra.

Note: Rows in Bold denote new products currently in engineering development

Si VDMOS Transistor Products

Part Number	Frequency Band	Output Power (minimum)	Pulse width & Duty factor	Gain (typical)	Efficiency (typical)	Voltage	Matching	Package
VHF/UHF and Broadband Communication								
IDM165L650	125-167 MHz	650W	1ms, 20%	9dB	62%	34V	None	P44I1
IDM175CW300	1-200 MHz	300W	CW	15dB	57%	50V	None	P44I5
IDM265L650	190-265 MHz	650W	1ms, 20%	8dB	58%	34V	None	P44C5
IDM500CW200	1-500 MHz	200W	CW	10dB	63%	28V	None	P44I1
IDM500CW300	1-500 MHz	300W	CW	9dB	65%	28V	None	P44I1
IDM30512CW50	30-512 MHz	50W	CW	10dB	50%	28V	None	P44I1
IDM30512CW100	30-512 MHz	100W	CW	9dB	65%	28V	None	P44I1

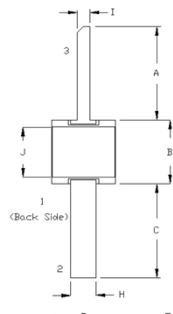
Note on package dimensions: Please confirm lead trim/dimensions with Integra.

Si Bipolar Transistor Products

Part Number	Frequency Band	Output Power (minimum)	Pulse width & Duty factor	Gain (typical)	Efficiency (typical)	Voltage	Matching	Package
UHF and Broadband Communication								
IB450S300	450 MHz	300W	30µs, 10%	11dB	63%	40V	Input	P44I1
IB450S500	450 MHz	500W	30µs, 10%	10dB	68%	40V	Input	P64A2
IB0607S10	653-687 MHz	10W	20µs, 2%	10dB	49%	50V	None	P32A5
IB0607S100	653-687 MHz	100W	20µs, 2%	13dB	62%	50V	Input	P32A5
IB0607S1000	653-687 MHz	1000W	20µs, 2%	9dB	55%	50V	Input	P64A6
L-band Avionics and L-band Radar								
IB0810M12	870-990 MHz	12W	300µs, 15%	8dB	53%	36V	None	P44C3
IB0810M50	870-990 MHz	50W	300µs, 15%	8dB	52%	36V	Input	P44C3
IB0810M100	870-990 MHz	100W	300µs, 15%	10dB	69%	36V	Input	P44C3
IB0810M210	870-990 MHz	210W	300µs, 15%	8dB	59%	36V	Input	P44C3
IB1011M10	1030 MHz	10W	128x (0.5µs On, 0.5µs Off), 1%	10dB	52%	50V	None	P32A5
IB1011M20	1030 MHz	20W	128x (0.5µs On, 0.5µs Off), 1%	14dB	61%	50V	None	P32A5
IB1011M70	1030 MHz	70W	128x (0.5µs On, 0.5µs Off), 1%	9dB	65%	50V	Input	P32A5
IB1011M140	1030 MHz	140W	128x (0.5µs On, 0.5µs Off), 1%	12dB	56%	50V	Input	P32A5
IB1011M190	1030 MHz	190W	128x (0.5µs On, 0.5µs Off), 1%	12dB	75%	50V	Input	P32A5
IB1011M250	1030 MHz	250W	128x (0.5µs On, 0.5µs Off), 1%	8dB	62%	50V	Input	P32A5
IB1011M350	1030 MHz	350W	128x (0.5µs On, 0.5µs Off), 1%	11dB	72%	50V	Input	P32A5
IB1011M660	1030 MHz	660W	128x (0.5µs On, 0.5µs Off), 1%	11dB	57%	50V	Input	P64A2
IB1011M800	1030 MHz	800W	128x (0.5µs On, 0.5µs Off), 1%	9dB	52%	50V	Input	P64A2
IB1011M1000	1030 MHz	1000W	128x (0.5µs On, 0.5µs Off), 1%	9dB	58%	50V	Input	P64A6
IB1011L15	1030 MHz	15W	48x (32µs On, 18µs Off), 6.4%	15dB	67%	48V	None	P32A5
IB1011L40	1030 MHz	40W	48x (32µs On, 18µs Off), 6.4%	10dB	57%	48V	Input	P32A5
IB1011L110	1030 MHz	110W	48x (32µs On, 18µs Off), 6.4%	11dB	65%	48V	Input	P32A5
IB1011L220	1030 MHz	220W	48x (32µs On, 18µs Off), 6.4%	9dB	56%	48V	None	P32A5
IB1011L470	1030 MHz	470W	48x (32µs On, 18µs Off), 6.4%	10dB	57%	48V	Input	P64A2
IB1011S70	1030/1090 MHz	70W	10µs, 1%	10dB	70%	50V	Input	P32A5
IB1011S190	1030/1090 MHz	190W	10µs, 1%	12dB	70%	60V	Input	P32A5
IB1011S250	1030/1090 MHz	250W	10µs, 1%	10dB	61%	50V	Input	P32A5
IB1011S350	1030/1090 MHz	350W	10µs, 1%	12dB	59%	50V	Input	P32A5
IB1011S1000	1030/1090 MHz	1000W	10µs, 1%	10dB	57%	50V	Input	P64A6
IB1011S1500	1030/1090 MHz	1500W	10µs, 1%	10dB	50%	60V	Input	P64A6
IB1011M1100	1030-1090 MHz	1100W	32µs, 2%	9dB	44%	60V	Input & Output	P64A6
IB1012S10	1025-1150 MHz	10W	10µs, 1%	11dB	43%	50V	Input & Output	P32C1
IB1012S20	1025-1150 MHz	20W	10µs, 1%	10dB	51%	50V	Input & Output	P32A5
IB1012S50	1025-1150 MHz	50W	10µs, 1%	11dB	49%	50V	Input	P32A5
IB1012S150	1025-1150 MHz	150W	10µs, 1%	10dB	53%	50V	Input & Output	P44C14
IB1012S500	1025-1150 MHz	500W	10µs, 1%	10dB	54%	50V	Input & Output	P54A5
IB1012S800	1025-1150 MHz	800W	10µs, 1%	10dB	50%	50V	Input & Output	P64A6
IB1012S1100	1025-1150 MHz	1100W	10µs, 1%	10dB	50%	60V	Input & Output	P64A6
IB0912M70	960-1215 MHz	70W	10µs, 10%	11dB	64%	50V	Input & Output	P32C1
IB0912M210	960-1215 MHz	210W	10µs, 10%	12dB	53%	50V	Input & Output	P44C7
IB0912M350	960-1215 MHz	350W	10µs, 10%	11dB	57%	50V	Input & Output	P54A5
IB0912M500	960-1215 MHz	500W	10µs, 10%	8dB	56%	50V	Input & Output	P64A2
IB0912M600	960-1215 MHz	600W	10µs, 10%	9dB	53%	50V	Input & Output	P64A28
IB0912L30	960-1215 MHz	30W	450µs, 15%	11dB	61%	36V	Input	P22A1
IB0912L70	960-1215 MHz	70W	444x (7µs On, 6µs Off), 22.7%	12dB	58%	44V	Input & Output	P22A1
IB0912L200	960-1215 MHz	200W	444x (7µs On, 6µs Off), 22.7%	10dB	58%	44V	Input & Output	P54A5
IB1214M6	1200-1400 MHz	6W	100µs, 10%	9dB	47%	28V	Input	P32C1
IB1214M32	1200-1400 MHz	32W	100µs, 10%	11dB	54%	40V	Input	P32A5
IB1214M55	1200-1400 MHz	55W	100µs, 10%	9dB	47%	40V	Input	P32A5
IB1214M130	1200-1400 MHz	130W	300µs, 10%	9dB	54%	50V	Input & Output	P32A5
IB1214M150	1200-1400 MHz	150W	100µs, 10%	8dB	50%	40V	Input & Output	P32A5
IB1214M375	1200-1400 MHz	375W	300µs, 10%	9dB	60%	42V	Input & Output	P64A28
IB1416S650	1450-1550 MHz	650W	50x (0.5µs On, 1.5µs Off), 1%	8dB	46%	50V	Input & Output	P64A24
S-band Radar and S-band ISM								
IB2226MH15	2250-2550 MHz	15W	200µs, 10%	10dB	41%	36V	Input & Output	P44A3
IB2226M80	2250-2550 MHz	80W	200µs, 10%	8dB	48%	36V	Input & Output	P32A5
IB2226MH110	2250-2550 MHz	110W	200µs, 10%	9dB	42%	36V	Input & Output	P44C4
IB2226M160	2250-2550 MHz	160W	200µs, 10%	9dB	54%	38V	Input & Output	P32A5
IB2226MH160	2250-2550 MHz	160W	200µs, 10%	9dB	46%	34V	Input & Output	P44C4
IB2729M5	2700-2900 MHz	5W	100µs, 10%	8dB	42%	32V	Input & Output	P32C3
IB2729M25	2700-2900 MHz	25W	100µs, 10%	9dB	45%	36V	Input & Output	P32C1
IB2729M90	2700-2900 MHz	90W	100µs, 10%	10dB	51%	36V	Input & Output	P32A5
IB2729M170	2700-2900 MHz	170W	100µs, 10%	10dB	50%	36V	Input & Output	P32A5
IB2731MH25	2700-3100 MHz	25W	200µs, 10%	10dB	43%	36V	Input & Output	P44L1
IB2931MH55	2900-3100 MHz	55W	100µs, 10%	9dB	49%	36V	Input & Output	P44C3
IB2731M110	2700-3100 MHz	110W	200µs, 10%	9dB	50%	36V	Input & Output	P32A5
IB2731MH110	2700-3100 MHz	110W	200µs, 10%	9dB	45%	36V	Input & Output	P44C4
IB2931MH155	2900-3100 MHz	155W	100µs, 10%	9dB	42%	36V	Input & Output	P44C4
IB2934M100	2900-3400 MHz	100W	100µs, 10%	8dB	40%	36V	Input & Output	P32A5
IB3134M15	3100-3400 MHz	15W	300µs, 10%	8dB	45%	36V	Input & Output	P32C3
IB3134M25	3100-3400 MHz	25W	300µs, 10%	10dB	45%	36V	Input & Output	P32C1
IB3134M70	3100-3400 MHz	70W	300µs, 10%	8dB	50%	36V	Input & Output	P32A5
IB3134M100	3100-3400 MHz	100W	300µs, 10%	10dB	42%	36V	Input & Output	P32A5
IB3135MH5	3100-3500 MHz	5W	100µs, 10%	8dB	30%	36V	Input & Output	P44A3
IB3135MH20	3100-3500 MHz	20W	100µs, 10%	8dB	35%	36V	Input & Output	P44A3
IB3135MH45	3100-3500 MHz	45W	100µs, 10%	9dB	42%	36V	Input & Output	P44C3
IB3135MH65	3100-3500 MHz	65W	100µs, 10%	8dB	49%	36V	Input & Output	P44C4
IB3135MH75	3100-3500 MHz	75W	100µs, 10%	9dB	49%	36V	Input & Output	P44C4
IB3135MH100	3100-3500 MHz	100W	100µs, 10%	9dB	45%	36V	Input & Output	P44C4
IB2856S30	2856 MHz	30W	12µs, 3%	10dB	50%	40V	Input & Output	P32A5
IB2856S65	2856 MHz	65W	12µs, 3%	11dB	53%	40V	Input & Output	P32A5
IB2856S250	2856 MHz	250W	12µs, 3%	11dB	52%	40V	Input & Output	P32A5
IB3000S60	3000 MHz	60W	12µs, 1%	12dB	52%	40V	Input & Output	P32A5
IB3000S200	3000 MHz	200W	12µs, 1%	9dB	48%	40V	Input & Output	P32A5

Note on package dimensions: Please confirm lead trim/dimensions with Integra.

P22A1

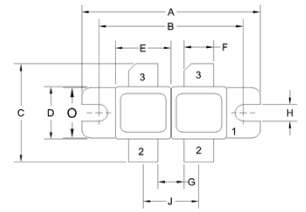


DIM	INCHES	MIN	MAX	MILLIMETERS	MIN	MAX
A	0.100	0.250	2.54	6.35		
B	0.243	0.257	6.17	6.35		
C	0.100	0.250	2.54	6.35		
D	0.193	0.240	4.90	6.10		
E	0.060	0.063	1.52	2.03		
F	0.080	0.100	2.03	2.54		
G	0.002	0.006	0.05	0.15		
H	0.093	0.107	2.35	2.72		
I	0.047	0.057	1.19	1.45		
J	0.153	0.167	3.89	4.24		
K	0.433	0.467	6.17	6.35		
L	0.040	0.050	1.02	1.27		

PIN SCHEDULE	
1	BASE
2	EMITTER
3	COLLECTOR

NOTES:
DIMENSIONS E, F, I, L DO NOT INCLUDE BACKSIDE SOLDER

P44C5

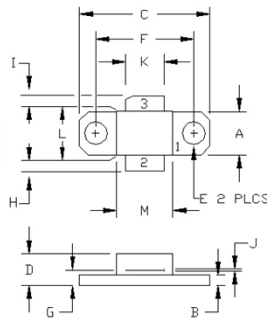


DIM	INCHES	MIN	MAX	MILLIMETERS	MIN	MAX
A	1.330	1.350	33.80	34.30		
B	1.095	1.105	27.81	28.07		
C	0.840	0.860	16.76	16.76		
D	0.395	0.405	10.03	10.29		
E	0.419	0.429	10.64	10.90		
F	0.220	0.230	5.59	5.84		
G	0.194	0.204	4.93	5.18		
H	0.112	0.132	2.84	3.35		
I	0.419	0.429	10.64	10.90		
J	0.062	0.072	1.59	1.83		
K	0.119	0.139	3.03	3.53		
L	0.193	0.225	4.90	5.72		
M	0.003	0.006	0.08	0.15		
N	0.390	0.390	9.91	9.91		

PIN SCHEDULE	
1	SOURCE
2	GATE
3	DRAIN



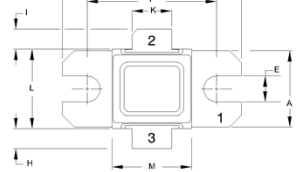
P32A5



DIM	INCHES	MIN	MAX	MILLIMETERS	MIN	MAX
A	0.243	0.253	6.17	6.43		
B	0.055	0.065	1.40	1.65		
C	0.729	0.749	18.77	19.02		
D	0.178	0.188	4.52	4.78		
E	0.125	0.135	3.18	3.43		
F	0.585	0.595	14.10	14.35		
G	0.082	0.092	2.08	2.34		
H	0.075	0.105	2.51	2.77		
I	0.075	0.105	2.51	2.77		
J	0.004	0.006	0.10	0.15		
K	0.215	0.225	5.46	5.72		
L	0.245	0.255	6.22	6.48		
M	0.315	0.325	8.00	8.26		

PIN SCHEDULE	
1	BASE
2	EMITTER
3	COLLECTOR

P44C7,C14

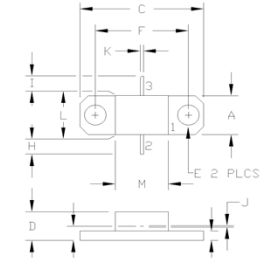


DIM	INCHES	MIN	MAX	MILLIMETERS	MIN	MAX
A	0.380	0.390	9.65	9.91		
B	0.058	0.062	1.47	1.57		
C	0.895	0.905	22.73	22.99		
D	0.195	0.205	4.93	5.21		
E	0.125	0.135	3.18	3.43		
F	0.645	0.655	16.38	16.64		
G	0.113	0.127	2.87	3.22		
H	0.107	0.147	2.72	3.73		
I	0.107	0.147	2.72	3.73		
J	0.002	0.006	0.05	0.15		
K	0.195	0.205	4.93	5.21		
L	0.395	0.405	10.03	10.29		
M	0.395	0.405	10.03	10.29		

PIN SCHEDULE	
1	BASE
2	COLLECTOR
3	EMITTER



P32C1,C3

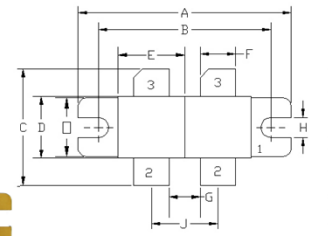


DIM	INCHES	MIN	MAX	MILLIMETERS	MIN	MAX
A	0.243	0.253	6.17	6.43		
B	0.055	0.065	1.40	1.65		
C	0.729	0.749	18.77	19.02		
D	0.178	0.188	4.52	4.78		
E	0.125	0.135	3.18	3.43		
F	0.585	0.595	14.10	14.35		
G	0.082	0.092	2.08	2.34		
H	0.040	0.200	1.02	5.08		
I	0.040	0.200	1.02	5.08		
J	0.004	0.006	0.10	0.15		
K	0.095	0.105	2.40	2.67		
L	0.245	0.255	6.22	6.48		
M	0.315	0.325	8.00	8.26		

PIN SCHEDULE	
1	BASE
2	EMITTER
3	COLLECTOR

NOTES:
LID: LID-P32-1

P44I1,I5

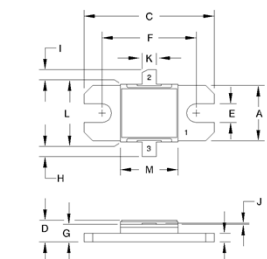


DIM	INCHES	MIN	MAX	MILLIMETERS	MIN	MAX
A	1.330	1.350	33.80	34.30		
B	1.095	1.105	27.81	28.07		
C	0.740	0.760	18.80	19.30		
D	0.395	0.405	10.03	10.29		
E	0.419	0.429	10.64	10.90		
F	0.220	0.230	5.59	5.84		
G	0.194	0.204	4.93	5.18		
H	0.123	0.133	3.12	3.38		
I	0.419	0.429	10.64	10.90		
J	0.062	0.072	1.58	1.83		
K	0.097	0.117	2.47	2.97		
L	0.153	0.225	4.90	5.72		
M	0.003	0.006	0.08	0.15		
N	0.380	0.390	9.65	9.91		

PIN SCHEDULE	
1	SOURCE
2	GATE
3	DRAIN



P44A3

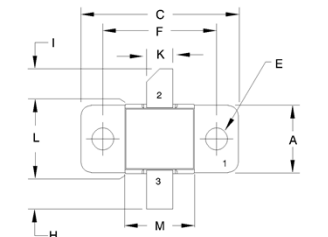


DIM	INCHES	MIN	MAX	MILLIMETERS	MIN	MAX
A	0.380	0.390	9.65	9.91		
B	0.058	0.062	1.47	1.57		
C	0.895	0.905	22.73	22.99		
D	0.197	0.177	3.99	4.50		
E	0.125	0.135	3.18	3.43		
F	0.645	0.655	16.38	16.64		
G	0.112	0.132	2.84	3.35		
H	0.095	0.105	2.41	2.67		
I	0.095	0.105	2.41	2.67		
J	0.003	0.006	0.08	0.15		
K	0.095	0.105	2.41	2.67		
L	0.395	0.405	10.03	10.29		
M	0.395	0.405	10.03	10.29		

PIN SCHEDULE	
1	BASE
2	COLLECTOR
3	EMITTER

NOTES:
LID: P44-2
PACKAGE: P40085A1

P44L1

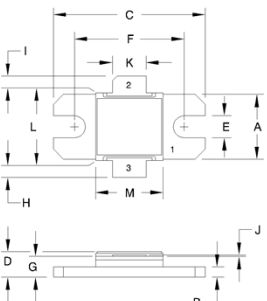


DIM	INCHES	MIN	MAX	MILLIMETERS	MIN	MAX
A	0.380	0.390	9.65	9.91		
B	0.058	0.062	1.47	1.57		
C	0.895	0.905	22.73	22.99		
D	0.155	0.175	3.93	4.44		
E	0.125	0.135	3.18	3.43		
F	0.645	0.655	16.38	16.64		
G	0.112	0.132	2.84	3.35		
H	0.180	0.210	4.62	5.33		
I	0.180	0.210	4.62	5.33		
J	0.002	0.005	0.05	0.13		
K	0.140	0.180	3.55	4.62		
L	0.392	0.402	9.95	10.21		
M	0.392	0.402	9.95	10.21		

PIN SCHEDULE	
1	BASE
2	COLLECTOR
3	EMITTER



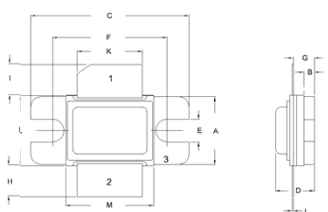
P44C3



DIM	INCHES	MIN	MAX	MILLIMETERS	MIN	MAX
A	0.380	0.390	9.65	9.91		
B	0.058	0.062	1.47	1.57		
C	0.895	0.905	22.73	22.99		
D	0.197	0.177	3.99	4.50		
E	0.125	0.135	3.18	3.43		
F	0.645	0.655	16.38	16.64		
G	0.112	0.132	2.84	3.35		
H	0.095	0.105	0.89	1.91		
I	0.095	0.105	0.89	1.91		
J	0.003	0.006	0.08	0.15		
K	0.095	0.105	2.41	2.67		
L	0.395	0.405	10.03	10.29		
M	0.395	0.405	10.03	10.29		

PIN SCHEDULE	
1	BASE
2	COLLECTOR
3	EMITTER

P54A5

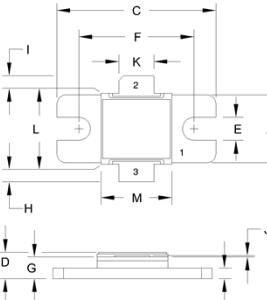


DIM	INCHES	MIN	MAX	MILLIMETERS	MIN	MAX
A	0.380	0.390	9.65	9.91		
B	0.055	0.065	1.39	1.65		
C	0.895	0.905	22.73	22.99		
D	0.225	0.235	5.71	5.97		
E	0.125	0.135	3.18	3.43		
F	0.645	0.655	16.38	16.64		
G	0.120	0.130	3.12	3.25		
H	0.160	0.190	4.06	4.82		
I	0.160	0.190	4.06	4.82		
J	0.004	0.006	0.10	0.15		
K	0.095	0.375	9.27	9.52		
L	0.395	0.405	10.03	10.29		
M	0.495	0.505	12.57	12.82		

PIN SCHEDULE	
1	COLLECTOR
2	EMITTER
3	BASE



P44C4



DIM	INCHES	MIN	MAX	MILLIMETERS	MIN	MAX
A	0.380	0.390	9.65	9.91		
B	0.055	0.065	1.40	1.65		
C	0.895	0.905	22.73	22.99		
D	0.150	0.180	3.81	4.57		
E	0.125	0.135	3.18	3.43		
F	0.645	0.655	16.38	16.64		
G	0.110	0.130	2.79	3.30		
H	0.125	0.129	3.17	3.28		
I	0.125	0.129	3.17	3.28		
J	0.003	0.005	0.08	0.13		
K	0.195	0.205	4.93	5.21		
L	0.395	0.405	10.03	10.29		
M	0.395	0.405	10.03	10.29		

PIN SCHEDULE	
1	BASE
2	COLLECTOR
3	EMITTER