



Broad Band RF Power MOSFET LDMOS Transistors and Amplifier Modules



Broad Band RF Power MOSFET VDMOS and GaN Transistors

LDMOS			Flanged Mount					28 Volt			
		Pout	Freq	Gain	theta	gm	Idsat	Ciss	Crss	Coss	
Part No	W	Mhz	dB	jc	mho	A	pf	pf	pf	Style	Pkg
LP701	35	500	12	1.80	1.6	10.0	60	1.6	30	Single Ended	AP
LC401	60	500	12	1.30	2.7	17.0	80	4	50	Single Ended	AC
LP702	70	500	12	1.00	3.2	20.0	120	3.2	60	Single Ended	AP
LK701	70	500	14	1.00	1.6	10.0	60	1.6	30	Push - Pull	AK
LK702	90	500	13	0.60	3.2	20.0	120	3.2	60	Push - Pull	AK
LX501A	100	500	12	0.75	4.8	30.0	150	7.5	100	Single Ended	LX2
LZ402	125	500	12	0.75	5.4	34.0	160	8	100	Single Ended	LZ
LB2301	125	500	18	0.48	5.0	15.0	70	1.4	25	Push - Pull	LB
LS2301	125	500	18	0.48	5.0	15.0	70	1.4	25	Push-Pull	LS
LR2301	125	500	18	0.48	5.0	15.0	70	1.4	25	Push - Pull	LR
LB401	130	500	14	0.75	2.7	17.0	80	4	50	Push - Pull	LB
LR401	130	500	14	0.75	2.7	17.0	80	4	50	Push - Pull	LR
LR501A	175	500	13	0.44	4.8	30.0	150	7.5	100	Push - Pull	LR
LB501A	175	500	13	0.44	4.8	30.0	150	7.5	100	Push - Pull	LB
LR2401	175	500	16	0.48	7.0	24.0	110	1.8	40	Push - Pull	LR
LA2541	200	500	16	0.38	7.5	21.0	122	2	45	Push - Pull	LA
LS2541	200	500	16	0.38	7.5	21.0	122	2	45	Push - Pull	LS
LR2501	200	500	16	0.40	7.5	27.0	122	2.6	45	Push - Pull	LR
LR2541	200	500	16	0.40	7.5	21.0	122	2	45	Push - Pull	LR
LS2641	250	500	16	0.35	7.8	29.0	147	1.6	60	Push - Pull	LS
LP801	15	1000	12	3.40	0.8	5.5	30	1	15	Single Ended	AP
LQ2001	20	1000	19	1.50	1.0	2.8	17	0.3	6	Push - Pull	AQ
LQ801	30	1000	12	1.80	0.8	5.5	30	1	15	Push - Pull	AQ
LK802	45	1000	12	1.10	1.6	11.0	60	2	30	Push - Pull	AK
LK2201	50	1000	17	1.20	2.8	7.5	40	0.8	15.2	Push - Pull	AK
LX401	60	1000	10	1.30	2.7	17.0	80	4	50	Single Ended	LX2
LX2201	35	1000	16	0.95	2.8	7.5	40	0.8	15.2	Single Ended	LX2
LX2301	60	1000	16	0.75	5.0	15.0	70	1.4	25	Single ended	LX2
LX2401	80	1000	15	0.75	7.0	24.0	110	1.8	40	Single Ended	LX2
LB2401	125	1000	16	0.48	7.0	24.0	110	1.8	40	Push - Pull	LB
LP601	7	1500	10	3.60	0.5	4.0	16	0.8	13	Single Ended	AP

LDMOS			Surface Mount					28 Volt			
		Pout	Freq	Gain	theta	gm	Idsat	Ciss	Crss	Coss	
Part No	W	Mhz	dB	jc	mho	A	pf	pf	pf	Style	Pkg
L8701PR	30	500	13	2.50	1.6	10.0	60	1.6	30	Single Ended	S08P
L2701	30	500	13	1.80	1.6	10.0	60	1.6	30	Single Ended	S02
L8801PR	13	1000	10	5.00	0.8	5.5	30	1	15	Single Ended	S08P
L2801	15	1000	12	3.40	0.8	5.5	30	1	15	Single Ended	S02
L2601	7	1500	10	3.60	0.5	4.0	16	0.8	13	Single Ended	S02

LDMOS			Flanged Mount					12.5 Volt			
		Pout	Freq	Gain	theta	gm	Idsat	Ciss	Crss	Coss	
Part No	W	Mhz	dB	jc	mho	A	pf	pf	pf	Style	Pkg
LC821	8	500	10	3.40	1.0	7.5	33	2	24	Single Ended	AC
LP821	10	500	12	3.40	1.0	7.5	33	2	24	Single Ended	AP
LQ821	20	500	12	1.80	1.0	7.5	33	2	24	Push - Pull	AQ
LP721	20	500	10	1.80	1.7	13.0	50	2	40	Single Ended	AP
LC421	25	500	8	1.30	2.7	17.0	80	5	60	Single Ended	AC
LK721	35	500	10	1.00	1.7	13.0	50	2	40	Push - Pull	AK
LP722	35	500	10	1.00	3.4	26.0	100	4	80	Single Ended	AP
LB421	35	500	13	0.75	2.7	17.0	80	5	60	Push - Pull	LB
LK722	45	500	11	0.50	3.4	26.0	100	4	80	Push - Pull	AK
LX521	45	500	10	0.75	5.1	39.0	150	7.5	100	Single Ended	LX2

LDMOS			Surface Mount					7.5 Volt			
		Pout	Freq	Gain	theta	gm	Idsat	Ciss	Crss	Coss	
Part No	W	Mhz	dB	jc	mho	A	pf	pf	pf	Style	Pkg
L2711	7	500	10	1.80	1.7	13.0	50	2	40	Single Ended	S02
L8711PR	7	500	10	2.50	1.7	13.0	50	2	40	Single Ended	S08P

LDMOS			Surface Mount					12.5 Volt			
		Pout	Freq	Gain	theta	gm	Idsat	Ciss	Crss	Coss	
Part No	W	Mhz	dB	jc	mho	A	pf	pf	pf	Style	Pkg
L8821PR	5	500	13	5.00	1.0	7.5	33	2	24	Single Ended	S08P
L2821	8	500	13	3.40	1.0	7.5	33	2	24	Single Ended	S02
L2721	15	500	11	1.80	1.7	13.0	50	2	40	Single Ended	S02
L8721PR	15	500	11	2.50	1.7	13.0	50	2	40	Single Ended	S08P

LDMOS			Flanged Mount					50 Volt			
		Pout	Freq	Gain	theta	gm	Idsat	Ciss	Crss	Coss	
Part No	W	Mhz	dB	jc	mho	A	pf	pf	pf	Style	Pkg
LS2541HF	500	30	23	0.25	6.5	21.0	200	1.2	45	Push - Pull	LS
LY942	600	80	19	0.18	7.0	48.0	240	7	230	Push - Pull	AY
LY2542V	1000	108	22	0.15	16.0	50.0	370	2.4	85	Push - Pull	LY
LY2843V	2000	108	18	0.10	32.0	100.0	740	5	200	Push - Pull	LY
LR941	200	500	13	0.30	3.5	24.0	120	3.5	115	Push - Pull	LR
LY2542LB	800	1215	13	0.02	16.0	45.0	320	2.2	525	Push - Pull	LY
LY2542LR	850	1400	13	0.02	18.0	45.0	350	1.7	190	Push - Pull	LY

Modules		RF POWER AMPLIER MODULES					
		Freq	Freq	Pout	Gain	Vdd	
		Mhz	Mhz	W	dB	V	Notes
MKAD01		1	30	80	43	24	Low frequency
MVAD01		2	30	40	30	24	High gain/power
MWAL01		2	30	200	55	24	Thru-hole mounting
MKAL02		2	100	100	50	28	High gain/power
MMAL01		5	100	15	30	25	Thru-hole mounting
MNAL01		5	100	15	30	25	SMA connectors
MYBF41		12	50	900	27	50	High Power, High Gain, LDMOS
MGCF21		20	50	2	23	12	High linearity
MCCL01		20	100	5	27	28	Thru-hole mounting
MADL01		20	110	10	25	28	Bottom mounting
MLCQ02		20	512	40	37	28	Good size vs gain
MLCQ03		20	512	60	37	28	High power density
MCCQ04		20	520	15	27	24	LDMOS based, high efficiency
MCCQ02		20	520	15	27	25	Thru-hole mounting
MCCQ03		20	520	15	27	25	Highly Rugged
MCCQ22		20	520	20	25	14.5	High power, mobile voltage
MLCQ04		20	520	40	40	28	GaN based Mil Comms
MTDQ01		20	520	50	13	24	Single Stage
MCCR21		20	600	10	25	12	Low Vds and broad band
MHCV01		20	1000	10	30	28	Ultra Broadband
MADK21		30	88	5	25	12.5	Bottom mounting
MCDK23		30	88	10	27	12	Fast Rise Time
MGDK21		30	88	10	30	12	SMA connectors
MBDP01		30	400	64	10	27	Bottom mounting
MADQ01		30	470	15	25	28	Bottom mounting
MADQ06		30	470	15	25	28	Fast Rise Time
MBDQ01		30	470	30	10	28	Single Stage
MADQ02		30	512	15	25	28	Milcoms, compact, rugged
MGDQ01		30	512	15	25	28	SMA connectors
MBDQ04		30	512	50	10	24	Bottom mounting
MSCQ02		30	512	150	17	28	High Power, broad band
MGMP01		225	400	1	18	28	Highly Linear
MUMR21		225	600	10	25	14.8	1.75in Long
MSMV02		225	1000	130	14	28	Broadband, Ldmos based
MSUV41		960	1260	100	13	48	GaN based

Note:- Pout is minimum power out at specified frequency of test. Transistors are not internally matched and can operate well below and slightly above frequency of test.

VDMOS S Series				Flanged Mount				28 Volt			
	Pout	Freq	Gain	theta	gm	Idsat	Ciss	Crss	Coss		
Part No	W	Mhz	dB	jc	mho	A	pf	pf	pf	Style	Pkg
SA701	25	175	13	2.80	1.2	7	50	3	32	Single Ended	AA
SA702	50	175	13	1.40	2.4	14	100	6	64	Single Ended	AA
SM703	80	175	13	1.00	3.6	21	150	9	96	Single Ended	AM
ST703	80	175	13	1.00	3.6	21	150	9	96	Single Ended	AT
SM401	135	175	11	0.65	7.2	42	210	13	200	Single Ended	AM
SR704	300	175	12	0.50	4.8	28	200	12	128	Push - Pull	AR
SR401	300	175	13	0.38	7.2	42	210	13	200	Push - Pull	AR
SX501	350	175	16	0.34	9	47	250	15	230	Push - Pull	AX
SR706	300	225	13	0.35	7.2	42	300	18	192	Push - Pull	AR
SR704U	150	400	10	0.50	4.8	28	200	12	128	Push - Pull	AR
SC701	20	500	10	2.80	1.2	7	50	3	32	Single Ended	AC
SP701	25	500	10	2.80	1.2	7	50	3	32	Single Ended	AP
SP702	40	500	10	1.40	2.4	14	100	6	64	Single Ended	AP
SE701	45	500	10	1.40	1.2	7	50	3	32	Push - Pull	AE
SJ701	45	500	10	1.40	1.2	7	50	3	32	Push - Pull	AJ
SK701	45	500	10	1.40	1.2	7	50	3	32	Push - Pull	AK
SQ701	45	500	10	1.40	1.2	7	50	3	32	Push - Pull	AQ
SK702	90	500	10	0.85	2.4	14	100	6	64	Push - Pull	AK
SR703	150	500	8	0.65	3.6	21	150	9	96	Push - Pull	AR
SP201	4	1000	10	10.00	0.3	1.4	10	0.6	6	Single Ended	AP
SQ201	8	1000	10	7.00	0.3	1.4	10	0.6	6	Push - Pull	AQ
SP202	8	1000	10	7.00	0.6	2.8	20	1.2	12	Single Ended	AP
SQ202	10	1000	10	3.40	0.6	2.8	20	1.2	12	Push - Pull	AQ
SK202	10	1000	10	3.40	0.6	2.8	20	1.2	12	Push - Pull	AK
SP204	15	1000	10	3.40	1.2	5.6	40	2.4	24	Single Ended	AP
SK204	25	1000	10	1.60	1.2	5.6	40	2.4	24	Push - Pull	AK



TB#	Freq Range	Po W	Gn dB	Sta ges	Tran sistors	Notes
208	20-512	100	20	2	--> SR703	Mil Comm 2 stage
210	30-400	100	25	2	-->SR704U	High Power Broadband
211	300-400	4	12	1	L8721P	7.5V plastic transistor
212	30-470	100	12	2	LR501	30-470MHz High IMD Amp
213	10-1000	5	20	2	--> SQ202	P1dB 5W, Psat 10W, Ultra Broadband
214	20-1000	10	10	1	LQ801	Psat 20W, Ultra Broadband
215	20-1000	10	30	3	--> LQ801	High Gain Ultra Broadband
216	118-140	50	26	2	--> SM704	Avionics, Efficiency > 50%
217	30-512	10	10	1	LP801	Mil Comm, Low Power
218	30-162	3	15	1	L2711	7.2V, 45% Efficiency
219	20-512	15	10	1	LQ801	Mil Comm, Compact
220	20-512	25	10	1	LK802	Mil Comm, Compact
221	200-2000	60	10	1	GX3442	Broadband Gan Amp
222	1-1000	25	12	1	GX2441	Broadband Gan Amp, Low freq
223	20-35	30	17	1	L2701	VHF Surface Mount Device
224	30-512	1.5	10	1	SP201	Mil Comm, Driver
225	76-90	20	18	1	SA701	VHF - High Gain
226	1-1000	30	13	1	GX4441	Broadband Gan Amp, Low freq
227	10-100	10	13	1	LP801	Broadband LDMOS
228	20-1000	1	13	1	LP801	Linear Broadband, LDMOS
229	100-1000	80	14	1	LB2401	Broadband LDMOS
230	20-1000	80	14	1	LB2401	Broadband, push-pull LDMOS
231	100-470	10	13	1	LP801	Broadband single ended LDMOS
232	1000-2600	30	13	1	GP2441	High Freq, Broad Band, GaN
233	30-512	160	16	1	LR2501	Mil Comm, rugged
234	500-1000	80	14	1	LB2401	High Power Broadband
235	30-512	125	17	1	LR2401	Mil Comm, rugged
236	440-520	20	12	1	SC701	TETRA
237	100-400	160	18	1	LR2501	Mil Comm
238	170-700	10	13	1	GP2001	Single-ended 28V GaN
239	2-30	400	20	1	LY942	HF, Push pull, 50V Ldmos
240	1.5-120	100	20	1	LR2501	Push pull, 28V Ldmos, High Bvdss
241	1.5-120	10	16	1	LP801	Single Ended, driver to TB240
242	1000-3000	10	10	1	GP1441	Broadband, high freq 48V GaN
243	1-1000	70	16	1	GX3442	Single-ended 48V GaN
244	1-1000	40	16	1	GX3441	Single-ended 48V GaN
245	760-960	140	13	1	LB2501	Public Safety, push-pull LDMOS
246	136-174	100	14	1	SR726	Commercial Comm, 12.5V Vdmos
247	380-520	200	16	1	LR2501	TETRA 28V 65% Ldmos, High Bvdss

TB#	Freq Range	Po W	Gn dB	Sta ges	Tran sistors	Notes
248	225-2000	10	10	1	GP2441	Broadband GaN
249	30-512	150	16	1	LR2541	Mil Comm LDMOS, high gain
250	30-512	75	20	1	LR2401	Mil Comm LDMOS, distributed
251	225-400	70	10	1	SK702	Mil Comm VDMOS
252	118-138	25	30	2	--> SM724	Avionics Communications
253	1300	200	14	1	LS2501	L-band LDMOS
254	30-512	2	11	1	LP821	Mil Comm LDMOS, 12.5V
255	30-512	100	20	1	GX3442	Mil Comm GaN, simple layout
256	20-3000	5	10	1	GP2001	Ultra Broadband, GaN
257	20-2500	10	10	1	G22001	Ultra Broadband, surface-mount GaN
259	20-2000	10	13	1	G22001	Ultra Broadband, surface-mount GaN
260	136-870	7	16	1	G21001	Hand Held VHF_UHF Radio GaN
261	225-2500	5	14	1	GP1441	Broadband, 48V GaN
262	1000-2500	50	13	1	GP3441	Medium Power broadband, 48V GaN
263	30-512	180	16	1	LS2641	Mil Comm, High Power and Gain
264	1.6-30	200	20	1	LS2541HF	HF, 28VDC, -30dBc IM3
265	0.5-2.0	200	60	3	LS2541HF	AM, 28VDC, high gain
266	1.6-30	150	24	1	LS2541HF	HF, 24VDC, -30dBc IM3
267	1.6-30	500	25	1	LS2541HF	HF, 50VDC, 68% eff
268	0.5-5.0	100	43	2	LS2301	AM to HF
269	380-520	250	18	1	LS2641	TETRA, min 55% eff
270	88-108	450	21	1	LS2541FM	FM, min 75% eff
271	960-1215	800	15	1	LY2542LB	L-band pulse, internal matching
273	2-30	500	24	1	LY2541HF	HF, high gain and efficiency
274	500-2700	10	12	1	GP2001	GaN, broadband
275	30-512	100	18	1	LR2301	Mil Comm, high gain
277C	1200-1400	850	14	1	LY2542LR	L-band radar pulsed, internal matching
278	1-30	100	44	2	--> LS2301	2-stage, IM3 -25dBc
279	2-30	1000	21	1	LY2542V	800W P1dB, 24dB
280	88-108	1000	21	1	LY2542V	630W P1dB, 23dB
281	88-108	2000	18	1	LY2843V	1.1kW P1dB, 22dB
282	470-700	100	16	1	LB2401	UHF Broadcast
283	1.5-30	2	10	1	SP201	HF, VDMOS, driver stage
284	2-300	80	20	1	GX3442	HF - VHF, GaN, high efficiency
285	1.5-30	25	15	1	SQ701	HF, VDMOS, 50% efficiency
286A	1.5-30	1300	28	1	LY2843V	HF, LDMOS, 75% efficiency
287	30-512	4	13	1	S8202	Mil Comm, SMT VDMOS



TB#	Freq Range	Po W	Gn dB	Sta ges	Tran sistors	Notes
110A	30-88	100	15	1	SH703	Ground Mil Comm
111B	10-110	10	23	2	--> SQ721	12V Mobile Wideband
117	10-200	100	12	1	SR704	High Power, Low Band Amp.
121	950-1250	2	10	1	SP201	L-band
123	890-915	5	17	2	--> SP204	Cellular Amp, 5W, +47 dbm IP3
127	200-400	100	10	1	SD703	Air Mil Comm
128	1000	15	13	1	LP801	Ldmos Single Ended
131	920-960	30	12	1	LQ801	Ldmos Push Pull
133	760-960	8	10	2	--> LP801	Driver for TB-131
134	760-960	50	10	1	LK802	Ldmos Push Pull
135	470-860	20	20	2	--> LQ801	UHF TV Broadcast
137	170-240	160	13	1	SR704	VHF Band III
139	850-900	5	28	2	--> LP801	Cell Band 9W 1dB Compression
141	30-500	40	10	1	SD702	Mil Comm; 65W @ 50-500Mhz
142	430-470	8	13	1	LP821	Land Mobile
144	500	7	10	1	L2711	7.5V Narrow band
145	88-108	300	40	2	SR746	FM Radio 2 Stages
147	450-470	10	10	1	LP821	12.5V Land Mobile Amp
148	450-470	35	10	1	LP722	12.5V Land Mobile Amp
150	470-860	45	10	1	LK802	UHF TV
151	800-900	35	10	1	LQ801	LDMOS PCS push pull
152	118-140	100	10	1	SM704	Avionics
153	30-512	40	20	2	--> SD702	2 stage Mil Comm
155	910-960	35	12	1	LX401	Cellular Driver Amp
156	88-108	300	19	1	SR341	FM Radio Broadcast
157	118-140	100	30	2	--> SM704	2 stage Avionics
158A	10-1000	2	10	1	S8201	Ultra Broadband Amp
159C	160-230	300	14	1	SR401	VHF Band III
160	30-512	60	13	1	LR401	Mil Comm
161A	30-400	120	10	1	SR704U	Mil Comm
162	30-512	60	13	1	LB401	Mil Comm
163	30-512	4	11	1	SQ201	Mil Comm
164	30-512	1.5	10	1	S8201	Mil Comm
165	30-512	10	13	1	SQ202	Mil Comm
166A	30-512	60	23	2	--> LB401	Mil Comm
167D	30-512	100	22	2	--> LB501A	Mil Comm
168	30-512	2	12	1	L2821	Mil comm 12.5V
169	30-512	20	13	1	LB421	Mil Comm 12.5V

TB#	Freq Range	Po W	Gn dB	Sta ges	Tran sistors	Notes
170	30-512	18	25	2	--> LB421	Mil Comm 12.5V
171B	450-470	15	10	1	LP721	Mobile 12.5V
172	2-30	300	18	1	SM341 X 2	HF Band 50V
173	135-175	18	10	1	LQ821	VHF Mobile 12.5V
174	138-153	4	13	1	LP721	VHF Mobile 9V
175	360-480	40	28	2	--> SQ701	VHF 2 Stages
176	30-174	200	10	1	SR401	High Power Broadband
177	2-30	200	23	1	SM401 X 2	HF Band 28V
178	136-174	7	11	1	L8821P	VHF 12.5V Surface Mount plastic
179	30-88	35	13	1	SQ701	Ground Mil Comm 28V
180	50-88	350	18	1	2X SR401	VHF Band I 350W 1db Compression
181	118-165	150	17	1	SR704	150W 1dB Compression
182	100-500	100	12	1	LR401	Mil Comm
183D	1.5-30	300	20	1	SR341	Shortwave IMD>-34dbc Vdd=50V
184	1.5-30	125	18	1	SR401	Shortwave IMD>-30dbc Vdd=24V
185	290-320	200	16	1	LR301	Sat Comm
186	160-230	300	16	1	LR301	High Power VHF TV
187	900-930	10	10	1	LQ601	Cellular 12.5V
188	1.5-30	20	25	2	--> SQ701	Shortwave IMD>-40dbc Vdd=24V
189	700-800	10	12	1	LQ601	New PCS Band Vdd=12.5V
191	850-870	100	10	1	LB401	LDMOS PCS Push Pull
192	850-870	10	10	1	SQ202	PCS Band driver Vdd=28V
193A	160-230	300	13	1	SR341	VHF Band III Vdd=50V
194	47-160	300	15	1	SR341	VHF Band Vdd=50V
195	430-450	300	11	1	LR301	Pulsed Radar Amp
196	100-400	120	12	1	SR746	50V Mil Com
191	850-870	100	10	1	LB401	LDMOS PCS Push Pull
192	850-870	10	10	1	SQ202	PCS Band driver Vdd=28V
193A	160-230	300	13	1	SR341	VHF Band III Vdd=50V
194	47-160	300	15	1	SR341	VHF Band Vdd=50V
195	430-450	300	11	1	LR301	Pulsed Radar Amp
196	100-400	120	12	1	SR746	50V Mil Com
197	30-512	2	11	1	L8821P	Mil Com 12.5V Low cost plastic
199	20-512	60	11	1	SK702	Military Com VDMOS
201	610-960	15	10	1	SK204	15W UHF amp
205	200-400	120	26	2	--> LB501	Mil Comm
206	160-230	200	16	1	LR501	VHF Band III
207	500-1000	60	12	1	LB401	High Power Broadband