



polyfet rf devices

LDMOS Flanged Mount 28 Volt										
Part No	Pout W	Freq Mhz	Gain dB	theta jc	gm mho	Idsat A	Ciss pf	Crss pf	Coss 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
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
LB501A	175	500	13	0.44	4.8	30.0	150	7.5	100	Push - Pull LB
LR501A	175	500	13	0.44	4.8	30.0	150	7.5	100	Push - Pull LR
LR2401	175	500	16	0.48	7.0	24.0	110	1.8	40	Push - Pull LR
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
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
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										
Part No	Pout W	Freq Mhz	Gain dB	theta jc	gm mho	Idsat A	Ciss pf	Crss pf	Coss pf	Style Pkg
LB8701PR	30	500	13	2.50	1.6	10.0	60	1.6	30	Single Ended S08P
LZ701	30	500	13	1.80	1.6	10.0	60	1.6	30	Single Ended S02
LZ601	7	1500	10	3.60	0.5	4.0	16	0.8	13	Single Ended S02
LB8801PR	13	1000	10	5.00	0.8	5.5	30	1	15	Single Ended S08P
LZ801	15	1000	12	3.40	0.8	5.5	30	1	15	Single Ended S02

LDMOS Flanged Mount 12.5 Volt										
Part No	Pout W	Freq Mhz	Gain dB	theta jc	gm mho	Idsat A	Ciss pf	Crss pf	Coss 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										
Part No	Pout W	Freq Mhz	Gain dB	theta jc	gm mho	Idsat A	Ciss pf	Crss pf	Coss pf	Style Pkg
LZ711	7	500	10	1.80	1.7	13.0	50	2	40	Single Ended S02
LB8711PR	7	500	10	2.50	1.7	13.0	50	2	40	Single Ended S08P

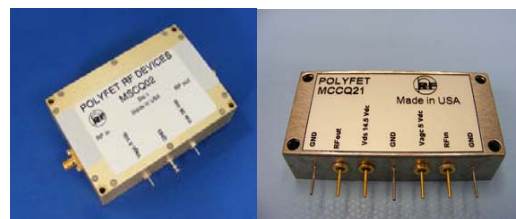
Broad Band RF Power MOSFET LDMOS Transistors

LDMOS Surface Mount 12.5 Volt										
Part No	Pout W	Freq Mhz	Gain dB	theta jc	gm mho	Idsat A	Ciss pf	Crss pf	Coss pf	Style Pkg
LB8821PR	5	500	13	5.00	1.0	7.5	33	2	24	Single Ended S08P
LZ821	8	500	13	3.40	1.0	7.5	33	2	24	Single Ended S02
LZ721	15	500	11	1.80	1.7	13.0	50	2	40	Single Ended S02
LB8721PR	15	500	11	2.50	1.7	13.0	50	2	40	Single Ended S08P

LDMOS Flanged Mount 50 Volt										
Part No	Pout W	Freq Mhz	Gain dB	theta jc	gm mho	Idsat A	Ciss pf	Crss pf	Coss pf	Style Pkg
LR941	200	500	13	0.30	3.5	24.0	120	3.5	115	Push - Pull LR
LY942	600	80	19	0.18	7.0	48.0	240	7	230	Push - Pull AY

Modules RF POWER AMPLIFIER MODULES

Part No	Freq Mhz	Freq Mhz	Pout W	Gain dB	Vdd	Notes
MKAD01	1	30	80	43	24	Low frequency
MWAL01	2	30	200	55	24	Thru-hole mounting
MKAL02	2	100	100	50	28	High gain/power
MVAD01	2	30	40	30	24	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
MLCQ04	20	520	40	40	28	GaN based Mil Comms
MCCR21	20	600	10	20	12	Low Vds and broad band
MCCQ02	20	520	15	27	28	Thru-hole mounting
MCCQ03	20	520	15	27	25	Highly Rugged
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
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	Bottom mounting
MGDQ01	30	512	15	25	28	SMA connectors
MBDQ03	30	512	50	10	24	Single Stage
MTDQ01	30	512	50	10	24	Single Stage, , Short Case
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



polyfet rf devices

VDMOS S Series Flanged Mount 28 Volt											
Part No	Pout W	Freq Mhz	Gain dB	theta jc	gm mho	Idsat A	Ciss pf	Crss pf	Coss pf	Style Pkg	
SA701	25	175	13	2.80	1.2	7	50	3	32	Single Ended AA	
SC701	20	500	10	2.80	1.2	7	50	3	32	Single Ended AC	
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	
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	

VDMOS S Series Surface Mount 28 Volt											
Part No	Pout W	Freq Mhz	Gain dB	theta jc	gm mho	Idsat A	Ciss pf	Crss pf	Coss pf	Style Pkg	
S8201	4	1000	10	10.00	0.3	1.4	10	0.6	6	Single Ended S08	
S8202	8	1000	10	7.00	0.6	2.8	20	1.2	12	Single Ended S08	

VDMOS S Series Flanged Mount 12.5 Volt											
Part No	Pout W	Freq Mhz	Gain dB	theta jc	gm mho	Idsat A	Ciss pf	Crss pf	Coss pf	Style Pkg	
SR726	100	175	10	0.35	8.0	60.0	270	21	330	Push - Pull AR	
ST724	60	175	10	0.85	5.2	38.0	180	14	220	Single Ended AT	
SM724	60	175	10	0.85	5.2	38.0	180	14	220	Single Ended AM	
SK723	50	400	10	0.65	3.9	28.5	135	10.5	165	Push - Pull AK	
SP721	15	400	10	2.80	1.3	9.5	45	3.5	55	Single Ended AP	
SC721	15	400	8	2.80	1.3	9.5	45	3.5	55	Single Ended AC	
SP722	20	400	10	1.40	2.6	19.0	90	7	110	Single Ended AP	
SQ721	25	400	10	1.40	1.3	9.5	45	3.5	55	Push - Pull AQ	
SK722	40	400	10	0.85	2.6	19.0	90	7	110	Push - Pull AK	
SC221	2	850	10	10.00	0.3	2.3	9	0.5	8	Single Ended AC	
SP221	2	850	10	10.00	0.3	2.3	9	0.5	8	Single Ended AP	
SQ221	4	850	10	6.00	0.3	2.3	9	0.5	8	Push - Pull AQ	

VDMOS S Series Surface Mount 12.5 Volt											
Part No	Pout W	Freq Mhz	Gain dB	theta jc	gm mho	Idsat A	Ciss pf	Crss pf	Coss pf	Style Pkg	
S8221	2	850	10	10.00	0.3	2.3	9	0.5	8	Single Ended S08	
S8222	4	850	10	7.00	0.6	4.6	18	1	16	Single Ended S08	

Broad Band RF Power MOSFET VDMOS and Gan Transistors

||
||
||



polyfet rf devices

Broad Band RF Power MOSFET Transistors Technical Bulletins

TB#	Freq Range	Po W	Gn dB	Sta ges	Tran sistors	Notes
189	700-800	10	12	1	LQ601	New PCS Band Vdd=12.5V
191	850-870	100	10	1	LB401	PCS Band Vdd=28V
192	850-870	10	10	1	SQ202	PCS Band driver Vdd=28V
193A	160-230	300	13	1	SR341	TV Band 2 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 Broadband Amp
197	30-512	2	11	1	L8821P	Mil Broadband 12.5V Low cost
199	20-512	60	11	1	SK702	Military Broadband 28V 60W
201	610 - 960	15	10	1	SK204	15W high freq amp
205	200-400	120	26	2	>LB501	200- 400 Mhz Broadband Amp
206	160-230	200	16	1	LR501	High Power VHF TV Band 2
207	500-1000	60	12	1	LB401	High Power Broadband
208	20-512	100	20	2	>SR703	High Power Broadband
210	30-400	100	25	2	>SR704U	High Power Broadband
211	300-400	4	12	1	L8721P	7.5V Low Power Amp
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	>SQ201--	High Gain Ultra Broadband
216	118-140	50	26	2	> SM704	Efficiency > 50%
217	30-512	10	10	1	LP801	Low Power Broadband
218	30-162	3	15	1	L2711	7.2V, 45% Efficiency
219	20-512	15	10	1	LQ801	Broadband Mil Compact
220	20-512	25	10	1	LK802	Broadband Mil Compact
221	200-2000	60	10	1	GX3442	Broadband Gan Amp
222	1-1000	25	12	1	GX2441	Ultra Broadband Gan Amp
223	20-35	30	17	1	L2701	VHF Surface Mount Device
224	30-512	1.5	10	1	SP201	Broadband Mil Driver
225	76-90	20	18	1	SA701	VHF - High Gain
226	1-1000	30	13	1	GX4441	Broadband Gan Amp
227	10-100	10	13	1	LP801	Broadband Idmos
228	20-1000	1	13	1	LP801	Linear Broadband
229	100-1000	80	14	1	LB2401	Broadband Idmos

TB#	Freq Range	Po W	Gn dB	Sta ges	Tran sistors	Notes
230	20-1000	80	14	1	LB2401	Ultra broadband
231	100-470	10	13	1	LP801	Custom development
232	1000-2600	30	13	1	GP2441	High Freq, Broad Band
233	30-512	160	16	1	LR2501	Military Broad Band
234	500-1000	80	14	1	LB2401	High Power Broadband
235	30-512	125	17	1	LR2401	Military Broad Band
236	440-520	20	12	1	SC701	TETRA
237	100-400	160	18	1	LR2501	Military Comms
238	170-700	10	13	1	GP2001	Single-ended 28V GaN
239	2-30	400	20	1	LY942	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, 28V Ldmos
242	1000-3000	10	10	1	GP1441	Single-ended 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	Push pull, 28V Ldmos, High Bvdss
246	136-174	100	14	1	SR726	Push pull, 12.5V Vdmos
247	380-520	200	16	1	LR2501	P-P, 28V 65% Ldmos, High Bvdss
248	225-2000	10	10	1	GP2441	Broadband GaN amp
249	30-512	150	16	1	LR2541	Mil Comms LDMOS, high gain
250	30-512	75	20	1	LR2401	Mil Comms LDMOS, distributed
251	225-400	70	10	1	SK702	Mil Coms VDMOS
252	118-138	25	30	2	>SM724	Avionics Communications
253	1300	200	14	1	5E-008	L-band LDMOS
254	30-512	2	11	1	LP821	Mil Comms LDMOS, low Vds
255	30-512	100	20	1	GX3442	Mil Comms GaN, simple layout
256	20-3000	5	10	1	GP2001	Ultra Broadband
257	20-2500	10	10	1	G22001	Ultra Broadband, surface-mount
259	20-2000	10	13	1	G22001	Ultra Broadband, surface-mount
260	136-870	7	16	1	G21001	Hand Held VHF_UHF Radio
261	225-2500	5	14	1	GP1441	Ultra broadband, 48V GaN
262	1000-2500	50	13	1	GP3441	Medium Power broadband, 48V GaN



polyfet rf devices

Broad Band RF Power MOSFET Transistors Technical Bulletins

TB#	Freq Range	Po W	Gn dB	Sta ges	Tran sistors	Notes
104	470-860	20	13	1	SK204	5W TV Linear 54 dB IMD
105	470-860	20	20	2	>SK204	20 Watt, UHF, TV band
106	100-500	80	10	1	SH702	Mil Comm Amp
107-1A	150-400	120	10	1	SR704U	Mil Comm Amp
108	100-400	100	40	3	>SK703	Mil Comm Amp
109	225-400	40	35	3	>SK702	Mil Comm Amp
110A	30-88	100	15	1	SH703	High Gain P.A.
111B	10-110	10	23	2	>SQ721	12V Mobile Wideband
117	10-200	100	12	1	SR704	High Power, Low Band Amp.
120	440-840	8	10	1	SP204	UHF 8 W Amp
121	950-1250	2	10	1	SP201	1 Ghz Amp
123	890-915	5	17	2	>SP204	Cellular Amp, 5W, +47 dbm IP3
127	200-400	100	10	1	SD703	200-400 Mhz 100W Amplifier
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	SK202 -->LQ801	TV Broadcast
137	170-240	160	13	1	SR704	High Gain Amp
139	850-900	5	28	2	LP801	Cell Band 9W 1dB Compression
141	30-500	40	10	1	SD702	BroadBand; 65W @ 50-500Mhz
142	430-470	8	13	1	LP821	Land Mobile
144	500	7	10	1	L2711	7.5V 7Watt 500 Mhz Amp
145	88-108	300	40	2	SA741 --> 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	CELL
152	118-140	100	10	1	SM704	See also TB-157
153	30-512	40	20	2	>SD702	2 stage Military Band Amp
155	910-960	35	12	1	LX401	Cellular Driver Amp
156	88-108	300	19	1	SR341	FM Radio Broadcast

TB#	Freq Range	Po W	Gn dB	Sta ges	Tran sistors	Notes
157	118-140	100	30	2	SM704	2 stage of TB 152
158A	10-1000	2	10	1	S8201	Ultra Broadband Amp
159C	160-230	300	14	1	SR401	High Performance VHF TV
160	30-512	60	13	1	LB/LR401	Military Broadband
161A	30-400	120	10	1	SR704U	Military Broadband
162	30-512	60	13	1	LB401	Military Broadband
163	30-512	4	11	1	SQ201	Military Broadband
164	30-512	1.5	10	1	S8201	Military Broadband
165	30-512	10	13	1	SQ202	Military Broadband
166A	30-512	60	23	2	>LB401	Military Broadband
167D	30-512	100	22	2	SQ202-->LB501A	Military Broadband
168	30-512	2	12	1	L2821	Military Broadband 12.5V
169	30-512	20	13	1	LB421	Military Broadband 12.5V
170	30-512	18	25	2	L8821P -->LB421	Military Broadband 12.5V
171B	450-470	15	10	1	LP721	Military Broadband 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
179	30-88	35	13	1	SQ701	Military 28V
180	50-88	350	18	1	SR401 X 2	TV 350W 1db Compression
181	118-165	150	17	1	SR704	150W 1dB Compression
182	100-500	100	12	1	LR401	100W 100-500Mhz
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	200W 1dB Compression
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