



polyfet rf devices

Technical Bulletins

TB#	Freq Range	Po W	Gn dB	Sta ges	Tran sistors	Notes
189	700-800	10	12	1	LQ601	LDMOS PCS Push Pull
191	850-870	100	10	1	LB401	PCS Band driver Vdd=28V
192	850-870	10	10	1	SQ202	TV Band 2 Vdd=50V
193A	160-230	300	13	1	SR341	VHF Band Vdd=50V
194	47-160	300	15	1	SR341	Pulsed Radar Amp
195	430 - 450	300	11	1	LR301	50V Broadband Amp
196	100-400	120	12	1	SR746	Mil Broadband 12.5V Low cost
197	30-512	2	11	1	L8821P	Military Broadband 28V 60W
199	20-512	60	11	1	SK702	JTRS 45W amp
201	610 - 960	15	10	1	SK204	50V Pulsed Radar Amp
205	200-400	120	26	2	>LB501	High Power VHF TV Band 2
206	160-230	200	16	1	LR501	High Power Broadband
207	500-1000	60	12	1	LB401	High Power Broadband
208	20-512	100	20	2	>SR703	Broadband 2 stage Milcom
210	30-400	100	25	2	>SR704U	7.5V Low Power Amp
211	300-400	4	12	1	L8721P	30-470MHz High IMD Amp
212	30-470	100	12	2	LR501	P1dB 5W, Psat 10W, Ultra Broadband
213	10-1000	5	20	2	> SQ202	Psat 20W, Ultra Broadband
214	20-1000	10	10	1	LQ801	High Gain Ultra Broadband
215	20-1000	10	30	3	>SQ201--	Efficiency > 50%
216	118-140	50	26	2	> SM704	Low Power Broadband
217	30-512	10	10	1	LP801	7.2V, 45% Efficiency
218	30-162	3	15	1	L2711	Broadband Mil Compact
219	20-512	15	10	1	LQ801	Broadband Mil Compact
220	20-512	25	10	1	LK802	Broadband Gan Amp
221	200-2000	60	10	1	GX3442	Ultra Broadband Gan Amp
222	1-1000	25	12	1	GX2441	VHF Surface Mount Device
223	20-35	30	17	1	L2701	Broadband Mil Driver
224	30-512	1.5	10	1	SP201	VHF - High Gain
225	76-90	20	18	1	SA701	Broadband Gan Amp
226	1-1000	30	13	1	GX4441	Broadband Idmos
227	10-100	10	13	1	LP801	Linear Broadband
228	20-1000	1	13	1	LP801	Broadband Idmos
229	100-1000	80	14	1	LB2401	Ultra broadband
230	20-1000	80	14	1	LB2401	Custom development
231	100-470	10	13	1	LP801	Broadband single ended LDMOS
232	1000-2600	30	13	1	GP2441	Military Broad Band

TB#	Freq Range	Po W	Gn dB	Sta ges	Tran sistors	Notes
233	30-512	160	16	1	LR2501	High Power Broadband
234	500-1000	80	14	1	LB2401	Military Broad Band
235	30-512	125	17	1	LR2401	TETRA
236	440-520	20	12	1	SC701	Military Comms
237	100-400	160	18	1	LR2501	Single-ended 28V GaN
238	170-700	10	13	1	GP2001	Push pull, 50V Ldmos
239	2-30	400	20	1	LY942	Push pull, 28V Ldmos, High Bvdss
240	1.5-120	100	20	1	LR2501	Single Ended, 28V Ldmos
241	1.5-120	10	16	1	LP801	Single-ended 48V GaN
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	Push pull, 28V Ldmos, High Bvdss
245	760-960	140	13	1	LB2501	Push pull, 12.5V Vdmos
246	136-174	100	14	1	SR726	P-P, 28V 65% Ldmos, High Bvdss
247	380-520	200	16	1	LR2501	Broadband GaN amp
248	225-2000	10	10	1	GP2441	Mil Comms LDMOS, high gain
249	30-512	150	16	1	LR2541	Mil Comms LDMOS, distributed
250	30-512	75	20	1	LR2401	Mil Comms VDMOS
251	225-400	70	10	1	SK702	Avionics Communications
252	118-138	25	30	2	1>SM724	L-band LDMOS
253	1300	200	14	1	5E-008	Mil Comms LDMOS, low Vds
254	30-512	2	11	1	LP821	Mil Comms GaN, simple layout
255	30-512	100	20	1	GX3442	Ultra Broadband
256	20-3000	5	10	1	GP2001	Ultra Broadband, surface-mount
257	20-2500	10	10	1	G22001	Ultra Broadband, surface-mount
259	20-2000	10	13	1	G22001	Hand Held VHF_UHF Radio
260	136-870	7	16	1	G21001	Broadband, 48V GaN
261	225-2500	5	14	1	GP1441	Low Power broadband, 48V GaN
262	1000-2500	50	13	1	GP3441	Medium Power broadband, 48V GaN
263	30-512	180	16	1	LS2641	High Power and Gain; Mil Comms
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	Usable up to 30MHz
269	380-520	250	18	1	LS2641	TETRA, min 55% eff
270	88-108	450	21	1	LS2541FM	FM, min 75% eff



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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	>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	SR341	BroadBand; 65W @ 50-500Mhz
142	430-470	8	13	1	SD702	Land Mobile
144	500	7	10	1	LQ801	7.5V 7Watt 500 Mhz Amp
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	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	>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	>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	High Power VHF TV
186	160-230	300	16	1	LR301	Cellular 12.5V
187	900-930	10	10	1	LQ601	Shortwave IMD>-40dBc Vdd=24V
188	1.5-30	20	25	2	>SQ701	New PCS Band Vdd=12.5V



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LDMOS		Flanged Mount							28 Volt		
Part No	Pout	Freq	Gain	theta	gm	Idsat	Ciss	Crss	Coss	Style	Pkg
W	Mhz	dB	jc	mho	A	pf	pf	pf			
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
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
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
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
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
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	Freq	Gain	theta	gm	Idsat	Ciss	Crss	Coss	Style	Pkg
W	Mhz	dB	jc	mho	A	pf	pf	pf			
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
L2601	7	1500	10	3.60	0.5	4.0	16	0.8	13	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

LDMOS		Flanged Mount							12.5 Volt		
Part No	Pout	Freq	Gain	theta	gm	Idsat	Ciss	Crss	Coss	Style	Pkg
W	Mhz	dB	jc	mho	A	pf	pf	pf			
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

Broad Band RF Power MOSFET LDMOS Transistors

LDMOS		Surface Mount							7.5 Volt		
Part No	Pout	Freq	Gain	theta	gm	Idsat	Ciss	Crss	Coss	Style	Pkg
W	Mhz	dB	jc	mho	A	pf	pf	pf			
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		
Part No	Pout	Freq	Gain	theta	gm	Idsat	Ciss	Crss	Coss	Style	Pkg
W	Mhz	dB	jc	mho	A	pf	pf	pf			
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		
Part No	Pout	Freq	Gain	theta	gm	Idsat	Ciss	Crss	Coss	Style	Pkg
W	Mhz	dB	jc	mho	A	pf	pf	pf			
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	Freq	Pout	Gain	Notes	
Mhz	Mhz	W	dB	Vdd		
MKAD01	1	30	80	43	24	Low frequency
MVAL01	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
MCCQ04	20	520	15	27	24	LDMOS based, high efficiency
MCCQ22	20	520	20	25	14.5	High power, mobile voltage
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	25	12	Low Vds and broad band
MCCQ02	20	520	15	27	25	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
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
MBDQ04	30	512	50	10	24	Bottom mounting
MADQ02	30	512	15	25	28	Milcoms, compact, rugged
MGDQ01	30	512	15	25	28	SMA connectors
MTDQ01	20	520	50	13	24	Single Stage
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



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VDMOS S Series		Flanged Mount							28 Volt		
Part No	Pout	Freq	Gain	theta	gm	Idsat	Ciss	Crss	Coss	Style	Pkg
W	Mhz	dB	jc	mho	A	pf	pf	pf			
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	Freq	Gain	theta	gm	Idsat	Ciss	Crss	Coss	Style	Pkg
W	Mhz	dB	jc	mho	A	pf	pf	pf			
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	Freq</									