

LOW POWER FIELD EFFECT TRANSISTORS

RF AMPLIFIERS, N-CHANNEL FETS

Type Number	Case Style (TO—)	Geometry	BVD _{go} or	C _{iss} Max (pF)	C _{rss} Max (pF)	V _{gs} (off)		I _{gss} Max (nA)	Y _{fs} Min (uMhos)	@ Freq (MHz)	I _{dss}		Pwr Gain @ Freq (dB)		NF Max (dB)	@ Freq (mHz)
			Min (V)			Max (V)	Min (mA)				Max (mA)	Min (dB)	Max (dB)			
2N3819	72	FN2.5	25	8.0	4.0	—	8.0	2.00	1600.0	100	2.0	20.0	—	—	4.0	400
2N3821*	72	FN3.6	50	6.0	3.0	—	4.0	0.10	1500.0	100	0.5	2.5	—	—	—	—
2N3822*	72	FN3.6	50	6.0	3.0	—	6.0	0.10	3000.0	100	2.0	10.0	—	—	—	—
2N3823*	72	FN2.5	30	6.0	2.0	—	8.0	0.50	3200.0	200	4.0	20.0	—	—	2.5	100
2N4223	72	FN2.5	30	6.0	2.0	—	8.0	0.25	2700.0	200	3.0	18.0	10.0	200	5.0	200
2N4224	72	FN2.5	30	6.0	2.0	0.1	8.0	0.50	1700.0	200	2.0	20.0	—	—	—	—
2N4416	72	FN2.5	30	4.0	0.8	—	6.0	0.10	4000.0	400	5.0	15.0	10.0	400	4.0	400
2N4416A	72	FN2.5	30	4.0	0.8	2.5	6.0	0.10	4000.0	400	5.0	15.0	10.0	400	4.0	400
2N5078	72	FN2.5	30	6.0	2.0	0.5	8.0	0.25	4000.0	200	4.0	25.0	—	—	3.0	200
2N5103	72	FN2.5	25	5.0	1.0	0.5	4.0	0.10	2000.0	0.001	1.0	8.0	—	—	—	—
2N5104	72	FN2.5	25	5.0	1.0	0.5	4.0	0.10	3500.0	0.001	2.0	6.0	—	—	—	—
2N5105	72	FN2.5	25	5.0	1.0	—	4.0	0.10	5000.0	0.001	5.0	15.0	—	—	—	—
2N5245	92	FN2.5	30	4.5	1.0	1.0	6.0	1.00	4000.0	400	5.0	15.0	—	—	4.0	400
KK5246	92	FN2.5	30	4.5	1.0	0.5	4.0	1.00	2500.0	400	1.5	7.0	—	—	—	—
KK5247	92	FN2.5	30	4.5	1.0	1.5	8.0	1.00	4000.0	400	8.0	24.0	—	—	—	—
KK5248	92	FN2.5	30	6.0	2.0	1.0	8.0	5.00	3.0	200	4.0	20.0	—	—	—	—
2N5397	72	FN36.1	25	5.0	1.2	1.0	6.0	0.10	5.5	450	10.0	30.0	15.0	450	3.5	450
2N5398	72	FN36.1	25	5.5	1.3	1.0	6.0	0.10	5.0	450	5.0	40.0	—	—	3.2	450
2N5484	18	FN2.5	25	5.0	1.0	0.3	3.0	0.10	2.5	100	1.0	5.0	16.0	100	3.0	100
2N5485	18	FN2.5	25	5.0	1.0	1.0	4.0	1.00	3.0	400	4.0	10.0	10.0	400	4.0	400
2N5486	92	FN2.5	25	5.0	1.0	2.0	6.0	1.00	3.5	400	8.0	20.0	10.0	400	4.0	400
2N5668	92	FN2.5	25	7.0	3.0	2.0	4.0	2.00	1.0	100	1.0	5.0	16.0	100	2.5	100
2N5669	92	FN2.5	25	7.0	3.0	1.0	6.0	2.00	1.6	100	4.0	8.0	16.0	100	2.5	100
2N5670	92	FN2.5	25	7.0	3.0	2.0	8.0	2.00	2.5	100	8.0	20.0	16.0	100	2.5	100
J300	92	FN71.1	25	5.5	1.7	0.0	6.0	0.50	4500.0	0.001	6.0	30.0	—	—	—	—
J308	92	FN71.1	25	5.0	2.5	1.0	6.5	1.00	8000.0	0.001	12.0	60.0	14.0	100	2.0	100
J309	92	FN71.1	25	5.5	2.5	1.0	4.0	0.50	—	0.001	12.0	30.0	14.0	100	2.0	100
J310	92	FN71.1	25	7.5	2.5	2.0	6.5	1.00	8.0	0.001	24.0	60.0	14.0	100	2.0	100
KK3819	92	FN2.5	25	8.0	4.0	—	8.0	15.00	1600.0	100	2.0	20.0	—	—	2.0	100
KK3823	92	FN2.5	20	6.0	2.0	—	8.0	0.50	3200.0	200	4.0	20.0	—	—	2.5	100
KK4223	92	FN2.5	30	6.0	2.0	0.1	8.0	0.25	2.7	200	3.0	18.0	10.0	200	5.0	200
KK4224	92	FN2.5	30	6.0	2.0	0.1	8.0	0.25	1700.0	200	2.0	20.0	10.0	200	—	—
KK4416	92	FN2.5	30	4.0	0.8	1.0	6.0	0.10	4000.0	400	5.0	15.0	10.0	400	4.0	400
KK5103	92	FN2.5	25	5.0	1.0	0.5	4.0	0.10	2000.0	0.001	—	1.0	8.0	100	—	—
KK5104	92	FN2.5	25	5.0	1.0	0.5	4.0	0.10	3500.0	0.001	2.0	6.0	—	—	—	—
KK5105	92	FN2.5	25	5.0	1.0	—	4.0	0.10	5000.0	0.001	5.0	15.0	—	—	—	—
U308	52	FN71.1	25	5.0	2.5	1.0	6.0	0.15	8000.0	0.001	12.0	60.0	10.0	—	2.0	450
U309	52	FN71.1	25	5.0	2.5	1.0	4.0	0.15	10000.0	0.001	12.0	30.0	10.0	—	2.0	450
U310	52	FN71.1	25	5.0	2.5	25.0	6.0	0.15	8000.0	0.001	24.0	60.0	10.0	—	2.0	450
U312	52	FN36.1	25	3.8	1.2	1.0	6.0	0.10	6000.0	0.001	10.0	30.0	10.0	—	2.0	450
U1994E	92	FN2.5	30	4.0	0.8	—	6.0	0.10	4000.0	400	5.0	15.0	10.0	400	4.0	400
UC588	92	FN2.5	30	4.0	1.2	1.0	6.0	1.00	4500.0	0.001	5.0	15.0	—	—	—	—
UC734	72	FN2.5	30	4.0	0.8	1.0	8.0	5.00	3000.0	200	4.0	20.0	—	—	—	—
UC734E	92	FN2.5	30	4.5	1.0	1.0	8.0	5.00	3000.0	200	4.0	20.0	—	—	—	—

* These devices are qualified for JAN, JTX, and JTXV.

Most of these devices are available in an epoxy TO-92 package (KK prefix) with similar electrical characteristics. Specify KB prefix for leads formed to TO-18/TO-106 pin circle configuration.