

JFET Selection Guide



RF, VHF, UHF AMPLIFIERS

N-Channel JFETs

Type No.	Case Style	BV _{GSS} (V) @ I _G		I _{GSS} (nA) @ V _{DG}		V _p (V) @ V _{DS}			I _D (nA)	I _{DSS} (mA) @ V _{DS}			R _e Y _{fs} (mmho) @ Freq		R _e (Y _{os}) (μmho) @ f		C _{iss} (pF) @ V _{DS}			V _{GS} (V)	C _{rss} (pF) @ V _{DS}			V _{GS} (V)	NF (dB) @ R _G = 1k Freq		Process No.	Pkg. No.	
		Min	(μA)	Max	(V)	Min	Max	(V)		Min	Max	(V)	Min	Max	(MHz)	Max	(MHz)	Max	(V)		Max	(V)	Max		(MHz)	Max			(MHz)
2N3819	TO-92	25	1	2	15		8	15	2		2	20	15	1.6	100			8	15	0		-4	15	0			50	94	
2N3823	TO-72	30	1	0.5	20		8	15	0.5		4	20	15	3.2	200	200	200	6	15	0		-2	15	0		2.5	100	50	25
2N4223	TO-72	30	10	0.25	20	0.1	8	15	0.25		3	18	15	2.7	200	200	200	6	15	0		-2	15	0		5	200	50	25
2N4224	TO-72	30	10	0.5	20	0.1	8	15	0.5		2	20	15	1.7	200	200	200	6	15	0		2	15	0			50	25	
2N4416	TO-72	30	1	0.1	20		6	15	1		5	15	15	4	400	100	400	4	15	0		0.8	15	0		4	400	50	25
2N4416A	TO-72	35	1	0.1	20	2.5	6	15	1		5	15	15	4	400	100	400	4	15	0		0.8	15	0		4	400	50	25
2N5078	TO-72	30	1	0.25	20	0.5	8	15			4	25	15	4	200	150	200	6	15	0		2	15	0		3	200	50	25
2N5245	TO-92	30	1	1	20	1	6	15	10		5	15	15	4	400	100	400	4.5	15	0		1	15	0		4	400	90	97
2N5246	TO-92	30	1	1	20	0.5	4	15	10		1.5	7	15	2.5	400	100	400	4.5	15	0		1	15	0			90	97	
2N5247	TO-92	30	1	1	20	1.5	8	15	10		8	24	15	4	400	150	400	4.5	15	0		1	15	0			90	97	
2N5248	TO-92	30	1	5	20	1	8	15	10		4	20	15	3	200	200	200	6	15	0		2	15	0			50	94	
2N5397	TO-72	25	1	0.1	15	1	6	10	1		10	30	10	5.5	450	200	450	5	10	10 mA		1.2	10	10 mA		3.5	450	90	29
2N5398	TO-72	25	1	0.1	15	1	6	10	1		5	40	10	5.0	450	400	450	5.5	10	0		1.3	10	0		3.2	450	90	29
2N5484	TO-92	25	1	1	20	0.3	3	15	10		1	5	15	2.5	100	75	100	5	15	0		1	15	0		3	100	50	92
2N5485	TO-92	25	1	1	20	1	4	15	10		4	10	15	3	400	100	400	5	15	0		1	15	0		4	400	50	92
2N5486	TO-92	25	1	1	20	2	6	15	10		8	20	15	3.5	400	100	400	5	15	0		1	15	0		4	400	50	92
2N5668	TO-92	25	10	2	15	0.2	4	14	10		1	5	15	1	100	50	100	7	15	0		3	15	0		2.5	100	50	92
2N5669	TO-92	25	10	2	15	1	6	15	10		4	10	15	1.6	100	100	100	7	15	0		3	15	0		2.5	100	50	92
2N5670	TO-92	25	10	2	15	2	8	15	10		8	20	15	2.5	100	150	100	7	15	0		3	15	0		2.5	100	50	92
2N5949	TO-92	300	1	1	15	3	7	15	100		12	18	15	3.0	100	75	100	6	15	0		2	15	0		5	100	50	97
2N5950	TO-92	30	1	1	15	2.5	6	15	100		10	15	15	3.0	100	75	100	6	15	0		2	15	0		5	100	50	97
2N5951	TO-92	30	1	1	15	2	5	15	100		7	13	15	3.0	100	75	100	6	15	0		2	15	0		5	100	50	97
2N5952	TO-92	30	1	1	15	1.3	3.5	15	100		4	8	15	1.0	100	75	100	6	15	0		2	15	0		5	100	50	97
2N5953	TO-92	30	1	1	15	0.8	3	15	100		2.5	5	15	1.0	100	50	100	6	15	0		2	15	0		5	100	50	97
J300	TO-92	25	1	0.5	15	1	6	10	1		6	30	10	4.5	0.001	200	0.001	5.5	10	5 mA		1.7	10	5 mA		12	100	90	92
J304	TO-92	30	1	0.1	20	2	6	15	1		5	15	15	14.2	400	180	100	13	15	0		1.8	15	0		14	400	50	92
J305	TO-92	30	1	0.1	20	0.5	3	15	1		1	8	15	13.0	400	180	100	13	15	0		1.8	15	0		14	400	50	92
J308	TO-92	25	1	1	15	1	6.5	10	1		12	60	10	8	0.001	200	0.001	7.5	0	-10		2.5	0	-10		11.5	100	92	92
J309	TO-92	25	1	1	15	1	4.0	10	1		12	30	10	10	0.001	200	0.001	7.5	0	-10		2.5	0	-10		11.5	100	92	92
J310	TO-92	25	1	1	15	2	6.5	10	1		24	60	10	8	0.001	200	0.001	7.5	0	-10		2.5	0	-10		11.5	100	92	92