

RF Semiconductors

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Small Signal GaAs FETS

CEL offers industry-leading Low Noise GaAs FET devices from NEC. Exceptional noise figure performance at frequencies past 20GHz are achieved in both ceramic and plastic packages.

RF Semiconductors Selection Guide:

NEC Small Signal GaAs FETS

[Low Noise](#)

[20GHz Band](#)



NEC Small Signal GaAs FETS > Low Noise Devices Typical Specifications @ TA = 25°C

Part No.	Gate Length	Gate Width	Freq Range	Test Freq	NF/G _A Bias		NF _{OPT}	G _A	Power Bias		P _{1dB}	Chip / Package	Package Code	Chip / Package	Available Screening
	(μm)	(μm)	(GHz) Recommended	(GHz)	V _{DS} (V)	I _{DS} (mA)	(dB)	(dB)	V _{DS} (V)	I _{DS} (mA)	(dBm)	Code		Description	Grades
NE3210S01	0.2	160	4 to 18	12	2.0	10	0.35	13.5				S01		Plastic SMD	D
NE3503M04	0.2	160	2 to 18	12	2.0	10	0.45	12.0				M04		Plastic SMD	D
NE3508M04	0.6	800	1 to 6	2	2.0	10	0.40	14.0	3.0	30	18.0	M04	0.6	Plastic SMD	D
NE3509M04	0.6	400	1 to 6	2	2.0	10	0.45	17.5	3.0	20	14.0	M04		Plastic SMD	D
NE3510M04	0.6	280	1 to 6	2	2.0	10	0.35	19.0	3.0	30	12.0	M04		Plastic SMD	D
NE3511S02	0.2	160	6 to 18	12	2.0	10	0.30	13.5				S02		Micro-X Plastic	D
NE3512S02	0.2	160	6 to 18	12	2.0	10	0.35	13.5				S02		Micro-X Plastic	D
NE3515S02	0.2	200	6 to 18	12	3.0	25	0.35	13.0				S02		Micro-X Plastic	D
NE4210S01	0.2	160	2 to 18	12	2.0	10	0.50	13.0				S01		Plastic SMD	D

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NEC Small Signal GaAs FETS > 20GHz Band Devices Typical Specifications @ TA = 25 °C

Part No.	Gate Length	Gate Width	Freq Range	Test Freq	NF/G _A Bias		NF _{OPT}	G _A	Chip / Package		Available Screening
	(μm)	(μm)	(GHz) Recommended	(GHz)	V _{DS} (V)	I _{DS} (mA)	(dB)	(dB)	Code	Description	Grades
NE350184C	0.2	160	4 to 20	20	2.0	10	0.7	13.5	84C	Micro-X Ceramic	D
NE3514S02	0.2	160	14 to 24	20	2.0	10	0.75	10.0	S02	Micro-X Plastic	D
NE3517S03	0.2	160	14 to 24	20	2.0	10	0.7	13.5	S03	Micro-X Plastic	D

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