

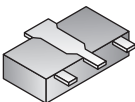
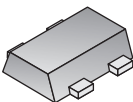
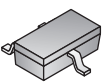
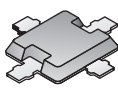
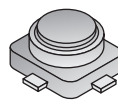
# RENESAS/CEL RF Transistors



This product is RoHS compliant.



California Eastern Laboratories

<p><b>A</b></p>  <p>SOT-89-3 Standard Pin Connections 1. Emitter 2. Collector 3. Base</p>	<p><b>B</b></p>  <p>M04 Standard Pin Connections 1. Emitter 2. Collector 3. Emitter 4. Base</p>	<p><b>C</b></p>  <p>Mini-3 Standard Pin Connections 1. Emitter 2. Collector 3. Base</p>
<p><b>D</b></p>  <p>79A Standard Pin Connections 1. Gate 2. Source 3. Drain</p>		<p><b>E</b></p>  <p>S02 Standard Pin Connections 1. Source 2. Drain 3. Source 4. Gate</p>

## SMALL SIGNAL SILICON BIPOLAR TRANSISTORS



RoHS Compliant

### Medium Power Applications

◆ Surface Mount Device

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	CEL Part No.	Fig.	Test f. (GHz)	P1dB				MAG			fT TYP (GHz)	hFE TYP	IC MAX (mA)	Price Each			
				VCE (V)	IC (mA)	PIN (dBm)	TYP (dB)	VCE (V)	IC (mA)	TYP (dB)				1	10	100	500
◆ 551-NESG270034-AZ	NESG270034-AZ	A	0.46	6	30	20	33.5	---	---	---	15	120	750	1.48	1.27	1.10	.931
◆ 551-NESG250134-AZ	NESG250134-AZ	A	0.5	3.6	30	15	29	3.6	100	23	10	120	500	1.40	1.25	1.09	.88
◆ 551-NESG260234-AZ	NESG260234-AZ	A	0.5	6	30	15	30	6	100	23	10	120	600	1.61	1.39	1.20	1.01
◆ 551-NE85634-A	NE85634-A	A	1	10	7	1.5	11.5	10	20	9	6.5	120	100	1.09	.97	.77	.62
◆ 551-NE46134-AZ	NE46134-AZ	A	1	12.5	100	20.5	27.5	10	50	9	5.5	100	250	1.91	1.65	1.42	1.20
◆ 551-NE461M02-AZ	NE461M02-AZ	A	1	12.5	100	19	27.5	10	50	11	5.5	120	250	2.19	1.89	1.62	1.38
◆ 551-NE664M04-A	NE664M04-A	B	1.8	3.6	200	15	26	3	100	12	20	60	500	1.70	1.32	1.18	1.07

### Oscillators Applications

◆ Surface Mount Device

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	CEL Part No.	Fig.	Test f. (GHz)	P1dB			fT TYP (GHz)	hFE TYP	IC MAX (mA)	Price Each			
				VCE (V)	IC (mA)	PIN (dBm)				1	10	100	500
◆ 551-NE58219-A	NE58219-A	C	0.9	5.0	5	0.001	5.0	90	60	.43	.388	.331	.274

## DISCRETE POWER DEVICES



RoHS Compliant

### Silicon LD MOSFETs

◆ Surface Mount Device

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	CEL Part No.	Fig.	Test f. (GHz)	GL TYP (dB)	POUT TYP (dBm)	ID TYP (A)	IGSS MAX (nA)	IDSS MAX (V)	RDS (ON) Ω	BVDSS TYP (V)	VDS TYP (GHz)	VGS TYP (V)	PIN TYP (dBm)	Price Each			
														1	10	100	500
◆ 551-NE5520379A-A	NE5520379A-A	D	0.9	15	35	1.5	100	100	0.12	24.0	3.0	2.0	25	9.40	7.99	7.21	6.38
◆ 551-NE5511279A-A	NE5511279A-A	D	0.9	15	40.5	2.75	100	100	-	24.0	20.0	6.0	27	14.03	11.30	10.48	8.97
◆ 551-NE5520279A-A	NE5520279A-A	D	1.8	10	32	0.8	100	100	-	18.0	15.0	5	25	9.83	8.34	7.52	6.68
◆ 551-NE552R479A-A	NE552R479A-A	D	2.45	11	26	230	100	100	2	18.0	3.0	2.0	19	8.02	6.68	5.94	5.05

### GaAs Drivers

◆ Surface Mount Device

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	CEL Part No.	Fig.	Freq. Range (GHz)	POUT (dBm)	Gain (dB)	Linear Efficiency @P1dB(%)	Power Added Freq. (GHz)	Test VDS (V)	IDS @ P1dB (mA)	IDS Max (A)	IGS Min/Max (mA)	Price Each			
												1	10	100	500
◆ 551-NE651R479A-A	NE651R479A-A	D	0.5 to 4.0	29.5	12.0	58	1.9	5.0	50	1	-	9.28	7.88	7.50	7.11

## SMALL SIGNAL GAAS FIELD EFFECT TRANSISTORS



RoHS Compliant

### Low Noise Applications

◆ Surface Mount Device

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	CEL Part No.	Fig.	Gate Length (um)	Gate Width (um)	Rec. Freq. Range (GHz)	Test Freq. (GHz)	NF / GA Bias		NF OPT (dB)	GA (dB)	Power Bias		P1dB (dBm)	Price Each			
							VDS (mA)	IDS (mA)			VDS (mA)	IDS (mA)		1	10	100	500
◆ 551-NE3511S02-A	NE3511S02-A	E	0.2	160	2.0 to 18	12.0	2.0	10	0.30	13.5	-	-	-	3.02	2.37	2.24	1.90
◆ 551-NE3512S02-A	NE3512S02-A	E	0.2	160	2.0 to 18	12.0	2.0	10	0.35	13.5	-	-	-	1.86	1.61	1.38	1.17
◆ 551-NE3514S02-A	NE3514S02-A	E	0.2	160	4.0 to 20	20.0	2.0	10	0.75	10.0	-	-	-	2.45	2.11	1.82	1.54
◆ 551-NE3508M04-A	NE3508M04-A	B	0.6	500	0.1 to 6	2.0	2.0	10	0.40	14.0	3.0	30	15	1.52	1.31	1.12	.96
◆ 551-NE3509M04-A	NE3509M04-A	B	0.6	400	0.1 to 6	2.0	2.0	10	0.45	17.5	3.0	30	11	1.52	1.31	1.12	.96