

# TRIQUINT SEMICONDUCTOR Amplifiers



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## GAIN BLOCK AMPLIFIERS

TriQuint's gain block amplifiers are a broad family of InGaP HBT general-purpose amplifiers offering superior dynamic range in low-cost, surface mount packages. These devices are designed to provide broadband gain at frequencies from DC to 6GHz. Targeted at telecommunications infrastructure and CATV markets, they can be directly applied to various current and next generation system applications wherever low-cost gain blocks are needed. Configured internally as Darlington pairs, these amplifiers are available in a variety of gain, power, and package combinations.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Package Type	Operating Bandwidth (MHz)	Gain Performance	Price Each		
Mfr.	Mfr. Part No.				1	25	100
772-TQP369180	SOT-89	0-6 GHz	15.7dB @ 1 GHz	1.55	1.15	.85	
772-TQP369181	SOT-89	0-6 GHz	15.3dB @ 1.9 GHz	1.55	1.15	.85	
772-TQP369182	SOT-89	0-6 GHz	22.3dB @ 1 GHz	1.55	1.15	.85	
772-TQP369184	SOT-89	0-6 GHz	20.6dB @ 1.9 GHz	1.55	1.15	.85	
772-TQP369185	SOT-89	0-6 GHz	20.5dB @ 1 GHz	1.61	1.19	.88	
772-EC1078B-G	SOT-89	DC-3500	20dB Gain@1GHz	5.25	3.88	2.87	
772-ECG001B-G	SOT-89	DC-6000	22.5dB Gain@1GHz	1.84	1.39	1.05	
772-ECG003B-G	SOT-89	DC-6000	+24dBm P1dB@1GHz	8.38	6.20	4.58	
772-ECG004B-G	SOT-89	DC-6GHz	16.2dB@1GHz	2.01	1.49	1.10	
772-ECG005B-G	SOT-89	DC-4000	+18dBm P1dB@1GHz	5.56	4.11	3.04	
772-ECG006B-G	SOT-86	DC-5500	+15.5dBm P1dB@1GHz	2.26	1.71	1.29	
772-ECG006F-G	SOT-363	DC-5500	+15.5dBm P1dB@1GHz	2.01	1.49	1.10	
772-ECG008B-G	SOT-89	DC-4000	+24dBm P1dB@1GHz	8.38	6.20	4.58	
772-ECG055B-G	SOT-89	DC-3000	20.5dB Gain @1GHz	2.17	1.65	1.25	
772-WJA1500	SOT-89	50-1000	+43.5dBm OIP3	3.72	2.75	2.03	
772-WJA1510	SOT-89	50-1000	+47dBm OIP3	3.72	2.75	2.03	
772-AG203-63G	SOT-363	DC-6000	20dB Gain@900MHz	.93	.70	.53	

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Mfr.	Mfr. Part No.				1	25	100
772-AG302-63G	SOT-363	DC-6000	15.5dB Gain@900MHz	1.44	1.09	.83	
772-AG303-63G	SOT-363	DC-6000	20.5dB Gain@900MHz	1.44	1.09	.83	
772-AG303-86G	SOT-86	DC-6000	20.5dB Gain@900MHz	1.96	1.48	1.12	
772-AG603-89G	SOT-89	DC-3000	18.5dB Gain@900MHz	2.03	1.54	1.16	
772-AG604-86G	SOT-86	DC-6000	20.5dB Gain@900MHz	2.74	2.07	1.57	
772-AG604-89G	SOT-89	DC-2700	21dB Gain@900MHz	2.03	1.54	1.16	
772-TQP3M9005	QFN-16	100-4000	15.3dB Gain@1.9GHz	2.58	1.91	1.41	
772-TQP3M9006	QFN-16	500-4000	13.5dB Gain@1.9GHz	4.22	3.12	2.31	
772-TQP3M9007	SOT-89	100-4000	13dB Gain@1.9GHz	5.16	3.82	2.83	
772-TQP3M9018	QFN-16	50-4000	20.5dB@1.9GHz	3.90	2.89	2.14	
772-TQP3M9019	QFN-16	50-4000	22dB@1.9GHz	4.95	3.66	2.71	
772-TQP3M9028	SOT-89	50-4000	4.7±0.3dB from 0.5-3.5GHz	4.32	3.20	2.37	
772-TQP770001	2mm x 2mm SMD-3	2.4-2.5GHz	27dB	1.50	1.50	1.50	
772-T1G6001528-Q3	SMD-3	DC-6000	>10 dBGain @ 6 GHz	105.75	95.44	86.13	
772-T1G6003028-FS	Flange Mount SMD-3	DC-6GHz	>14 dB Linear Gain@6 GHz	141.00	121.95	105.48	
772-T1G4005528-FS	SMD-3	DC-3500	>15 dBGain@3.5 GHz	262.00	236.46	213.40	

## HIGH LINEARITY AMPLIFIERS

TriQuint offers an extensive range of highly linear amplifiers - the perfect choice for today's high data rate telecommunications systems. TriQuint's medium power amplifiers provide high reliability, high output IP3, low noise, and excellent linear figure of merit (LFOM = OIP3/DC power) in frequency ranges from 50-4000MHz. TriQuint's amplifiers are available in industry-standard green surface-mount packages.

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MOUSER STOCK NO.		Package Type	Operating Bandwidth (MHz)	Gain Performance	Price Each		
Mfr.	Mfr. Part No.				1	25	100
772-AG102-G	SOT-89	60-3000	14dB@900MHz	2.61	1.97	1.49	
772-AH1-G	SOT-89	250-4000	13.5dB@800MHz	7.40	5.47	4.05	
772-AH101-G	SOT-89	50-1500	13.5dB@900MHz	14.93	11.30	8.56	
772-AH102A-G	SOT-89	350-3000	14.5dB@900MHz	14.21	10.75	8.14	
772-AH118-89G	SOT-89	60-3500	20.4dB@900MHz	8.97	6.64	4.91	
772-AH125-89G	SOT-89	400-2700	16.2dB@2140MHz	7.43	5.50	4.06	
772-AH202-F	QFN-28	50-2200	17dB@900MHz	20.90	16.19	12.53	
772-AH3-G	SOT-89	50-870	13dB@800MHz	7.48	5.53	4.09	
772-AH31-G	SOT-89	50-1000	19dB@240MHz	8.22	6.08	4.50	
772-AH322-S8G	SO-8	400-2700	13.5dB@2140MHz	12.13	9.18	6.95	
772-AH240-EG	4x5 DFN	400-2700	14dB@2140MHz	23.01	16.62	12.01	
772-AM1-G	SOT-89	60-3000	14dB@800MHz	6.54	4.72	3.41	

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MOUSER STOCK NO.		Package Type	Operating Bandwidth (MHz)	Gain Performance	Price Each		
Mfr.	Mfr. Part No.				1	25	100
772-TQP3M9009	SOT-89	50-4000	21.8dB@1.9GHz	4.95	3.66	2.71	
772-TQP3M9008	SOT-89	50-4000	20dB@1.9GHz	3.91	2.89	2.14	
772-TQP7M9101	SOT-89	400-4000	17.5dB Gain@2140MHz	5.42	4.01	2.97	
772-TQP7M9102	SOT-89	400-4000	17.8dB Gain@2140MHz	6.85	5.07	3.75	
772-TQP8M9013	QFN-24	7-7.8GHz	29.5dB@2140MHz	11.78	8.72	6.45	
772-TQP3M9035	QFN-8	50-4000	16.5dB @ 1.9GHz	4.07	3.01	2.23	
772-TQP3M9037	DFN-8	1.5-2.7GHz	20dB@1.95GHz	4.23	3.13	2.32	
772-TQP3M9038	QFN-24	50-4000	14.9 @ 0.5-3.5GHz	4.32	3.20	2.37	
772-TQP7M9104	QFN-24	700-2700	15.8dB @ 2140MHz	10.80	7.99	5.91	
772-TQP7M9105	SOT-89-3	50-1500	19dB@940MHz	8.47	6.27	4.64	
772-TQP7M9106	QFN-24	50-1500	20.8dB@940MHz	10.80	7.99	5.91	
772-TGA2507-SM-TR	QFN-12	11-17GHz	25dB	25.88	20.96	16.98	

## POWER AMPLIFIERS

TriQuint's family of power amplifier ICs and modules features high efficiency and linearity in both 12V and 28V InGaP HBT processes. Power amplifier ICs developed on TriQuint's highly reliable 28V InGaP HBT process operate over a wide frequency range to include all the key cellular frequencies. The +12V InGaP HBT (GaAs) power amplifier modules are ideal for the PHS/PAS and PCS/UMTS markets and include internal matching for 50 Ohm.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	TriQuint Part No.	Package Type	Operating Bandwidth	Gain Performance	Price Each		
					1	25	100
772-TGA8659-FL	TGA8659-FL	Flange Mount	13-15GHz	25dB Nominal	101.40	85.83	72.65
772-TQM679002A	TQM679002A	3.0x3.0x0.45mm ETSLP	2.4-2.5GHz	33.5dB	3.08	2.57	2.14
772-TQP6M9002	TQP6M9002	4.0x4.0x0.5mm ETSLP-24	2.4-2.5GHz	-	5.94	4.95	4.13

## CATV AMPLIFIERS

The AH2, AH22, and AG606 are general purpose amplifiers that are very well-suited for cable TV applications requiring gain flatness, high linearity, and wide bandwidth. Designed for 75 Ohm systems, these devices can operate from a single supply voltage and manufactured using TriQuint's highly reliable GaAs MESFET process. These products offer low noise performance and a high dynamic range. Other applications suitable for these products are cable modem and laser diode drivers. In addition, TriQuint has a wide variety of products that can be used for CATV transmission, headend, or STB applications.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	TriQuint Part No.	Package Type	Operating Bandwidth	Gain Performance	Price Each		
					1	25	100
772-AH22S-G	AH22S-G	SOIC-8	50-1000MHz	14.5@800MHz, ±0.2dB Gain Flatness	10.23	9.04	7.98
772-TAT7457	TAT7457	SOT-89	DC-2000MHz	19dB	9.00	8.00	7.00
772-AH2-G	AH2-G	SOT-89	50-1000MHz	14.5dB@800MHz	4.26	3.45	2.80

## DISCRETE AMPLIFIERS

TriQuint's discrete FETs meet today's demand for wireless receiver and transmitter applications. TriQuint's FETs deliver exceptional performance and high reliability and are the basic building blocks within TriQuint's amplifier products. TriQuint's FETs offer OEM's high efficiency, high-power and high-quality for wireless infrastructure applications. TriQuint's high dynamic range FETs are packaged in low-cost surface mount packages for customized design applications.

MOUSER STOCK NO.	TriQuint Part No.	Package Type	Operating Bandwidth	Gain Performance	Price Each		
					1	25	100
772-FH1-G	FH1-G	SOT-89	50-4000MHz	18dB Gain, +21dBm P1dB	7.45	5.51	4.08
772-FP1189-G	FP1189-G	SOT-89	50-4000MHz	20.5dB Gain, +27dBm P1dB	7.23	5.35	3.95
772-FP2189-G	FP2189-G	SOT-89	50-4000MHz	18dB Gain, +30dBm P1dB	10.59	7.83	5.79
772-FP31QF-F	FP31QF-F	QFN28	50-4000MHz	18dB Gain, +34dBm P1dB	15.06	11.14	8.24
772-TAT6254B	TAT6254B	4.0mmx4.0mm	50-1000MHz	38dB	17.60	14.30	8.80

## PHEMT AMPLIFIERS

772-TGA2601-SM	TGA2601-SM-T/R	QFN-16	800-3000MHz	24dB Gain@900MHz	24.14	18.57	14.30
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## RF MIXER

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	TriQuint Part No.	Package Type	Operating Bandwidth	RF	IF	Price Each		
						1	25	100
772-ML483-G	ML483-G	MSOP-8	.7GHz-1GHz	700MHz to 1000MHz	70MHz to 300MHz	4.83	3.67	2.79
772-CMY210	CMY210	MW-6	500MHz-2.5GHz	0.5-2.5GHz	50-250MHz	3.94	2.98	2.26

## HIGH POWER SWITCHING

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	TriQuint Part No.	Package Type	Switch Type	Operating Bandwidth	Switching Speed (ns)	Control Voltages (V)	Power Handling (W)	Price Each		
								1	25	100
772-TGS2351-SM	TGS2351-SM	QFN-24	SPDT	DC-6000MHz	<35	0/-40	40	90.30	76.43	64.69

## ATTENUATOR

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	TriQuint Part No.	Package Type	Operating Bandwidth	Insertion Loss	Price Each		
					1	25	100
772-TQP4M9083	TQP4M9083	QFN-24	0.4-3.5GHz	1.5 dB	4.32	3.20	2.37
772-TQP4M9071	TQP4M9071	QFN-24	DC to 4GHz	1.7dB@2.2GHz	4.18	3.09	2.29
772-TQP4M9072	TQP4M9072	QFN-24	DC-4GHz	1.7dB@2.2GHz	4.18	3.09	2.29

Amplifier ICs TriQuint Semiconductor NEW AT MOUSER NEW AT MOUSER