

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 6 GHz. 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.	TriQuint Part No.	Package Type	Operating Bandwidth	Gain Performance	Price Each		
					1	25	100
772-EC1078B-G	EC1078B-G	SOT-89	DC-3500MHz	20dB Gain@1GHz	5.25	3.88	2.87
772-ECG001B-G	ECG001B-G	SOT-89	DC-6000MHz	22.5dB Gain@1GHz	1.84	1.39	1.05
772-ECG003B-G	ECG003B-G	SOT-89	DC-6000MHz	+24dBm P1dB@1GHz	8.38	6.20	4.58
772-ECG004B-G	ECG004B-G	SOT-89	DC-6GHz	16.2dB@1GHz	2.01	1.49	1.10
772-ECG005B-G	ECG005B-G	SOT-89	DC-4000MHz	+18dBm P1dB@1GHz	5.56	4.11	3.04
772-ECG006C-G	ECG006C-G	SOT-86	DC-5500MHz	+15.5dBm P1dB@1GHz	2.26	1.71	1.29
772-ECG006F-G	ECG006F-G	SOT-363	DC-5500MHz	+15.5dBm P1dB@1GHz	2.01	1.49	1.10
772-ECG008B-G	ECG008B-G	SOT-89	DC-4000MHz	+24dBm P1dB@1GHz	8.38	6.20	4.58
772-ECG055B-G	ECG055B-G	SOT-89	DC-3000MHz	20.5dB Gain @1GHz	2.17	1.65	1.25
772-WJA1500	WJA1500	SOT-89	50-1000MHz	+43.5dBm OIP3	3.72	2.75	2.03
772-WJA1510	WJA1510	SOT-89	50-1000MHz	+47dBm OIP3	3.72	2.75	2.03
772-AG203-63G	AG203-63G	SOT-363	DC-6000MHz	20dB Gain@900MHz	.93	.70	.53
772-AG302-63G	AG302-63G	SOT-363	DC-6000MHz	15.5dB Gain@900MHz	1.44	1.09	.83
772-AG303-63G	AG303-63G	SOT-363	DC-6000MHz	20.5dB Gain@900MHz	1.44	1.09	.83
772-AG303-86G	AG303-86G	SOT-86	DC-6000MHz	20.5dB Gain@900MHz	1.96	1.48	1.12
772-AG603-89G	AG603-89G	SOT-89	DC-3000MHz	18.5dB Gain@900MHz	2.03	1.54	1.16
772-AG604-86G	AG604-86G	SOT-86	DC-6000MHz	20.5dB Gain@900MHz	2.74	2.07	1.57
772-AG604-89G	AG604-89G	SOT-89	DC-2700MHz	21dB Gain@900MHz	2.03	1.54	1.16
772-TQP3M9005	TQP3M9005	QFN-16	100-4000MHz	15.3dB Gain@1.9GHz	2.58	1.91	1.41
772-TQP3M9006	TQP3M9006	QFN-16	500-4000MHz	13.5dB Gain@1.9GHz	4.22	3.12	2.31
772-TQP3M9007	TQP3M9007	SOT-89	100-4000MHz	13dB Gain@1.9GHz	5.16	3.82	2.83
772-TQP3M9018	TQP3M9018	QFN-16	50-4000 MHz	20.5dB@1.9GHz	2.89	2.14	2.03
772-TQP3M9019	TQP3M9019	QFN-16	50-4000 MHz	22dB@1.9GHz	3.66	2.71	2.57
772-TQP3M9028	TQP3M9028	SOT-89	50-4000MHz	4.7±0.3dB from 0.5-3.5GHz	4.32	3.20	2.37
772-TQP770001	TQP770001	2mm x 2mm	2.4GHz-2.5GHz	27dB	10.00	10.00	1.30

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 50-4000 MHz. TriQuint's amplifiers are available in industry-standard green surface-mount packages.

772-AG102-G	AG102-G	SOT-89	60-3000MHz	14dB@900MHz	2.61	1.97	1.49
772-AH1-G	AH1-G	SOT-89	250-4000MHz	13.5dB@800MHz	7.40	5.47	4.05
772-AH101-G	AH101-G	SOT-89	50-1500MHz	13.5dB@900MHz	15.68	11.87	8.99
772-AH102A-G	AH102A-G	SOT-89	350-3000MHz	14.5dB@900MHz	14.93	11.29	8.55
772-AH118-89G	AH118-89G	SOT-89	60-3500MHz	20.4dB@900MHz	8.97	6.64	4.91
772-AH125-89G	AH125-89G	SOT-89	400-2700MHz	16.2dB@2140MHz	7.43	5.50	4.06
772-AH202-F	AH202-F	QFN-28	50-2200MHz	17dB@900MHz	21.95	17.00	13.16
772-AH3-G	AH3-G	SOT-89	50-870MHz	13dB@800MHz	7.48	5.53	4.09
772-AH31-G	AH31-G	SOT-89	50-1000MHz	19dB@240MHz	8.22	6.08	4.50
772-AH322-S8G	AH322-S8G	SOT-8	400-2700MHz	13.5dB@2140MHz	12.13	9.18	6.95
772-AH420-EG	AH420-EG	4x5 DFN	400-2700MHz	14dB@2140MHz	23.01	16.62	12.01
772-AM1-G	AM1-G	SOT-89	60-3000MHz	14dB@800MHz	6.54	4.72	3.41
772-TQP3M9009	TQP3M9009	SOT-89	50-4000MHz	21.8dB@1.9GHz	4.95	3.66	2.71
772-TQP3M9008	TQP3M9008	SOT-89	50-4000MHz	20dB@1.9GHz	3.91	2.89	2.14
772-TQP7M9101	TQP7M9101	SOT-89	400-4000MHz	17.5dB Gain@2140MHz	5.42	4.01	2.97
772-TQP7M9102	TQP7M9102	SOT-89	400-4000MHz	17.8dB Gain@2140MHz	6.85	5.07	3.75
772-TQP8M9013	TQP8M9013	QFN-24	.7GHz to 3.8GHz	29.5dB@2140MHz	11.78	8.72	6.45
772-TGA2507-SM-TR	TGA2507-SM-T/R	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.

772-TGA8659-FL	TGA8659-FL	Flange Mount	13-15 GHz	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
772-TGA2904-FL	TGA2904-FL	Flange Mount	13-17 GHz	33dB Nominal	71.16	62.88	55.56

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.

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.

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	4.0mm x 4.0mm	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

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-TQP4M9071	TQP4M9071	QFN-24	DC to 4GHz	1.7dB@2.2GHz	4.18	3.09	2.29
772-TQP4M9072	TQP4M9072	QFN-24	DC-4 GHz	1.7dB@2.2GHz	4.18	3.09	2.29