

Additional Silicon Monolithic Circuit Products

N E C/ CALIFORNIA

15E D ■ 6427414 0001787 2 ■

T-90-10

AMPLIFIERS

PART NUMBER	BW* (GHz)	Gv @ 0.5 GHz (dB)	NF @ 0.5 GHz (dB)	P1dB @ 0.5 GHz (dBm)	Vcc (V)	Icc (mA)	PACKAGE
UPC1655C	0.9	18	5.5	5.0	5.0	20	C08
UPC1656C	1.2	19	10.5	10.5	10	43	C08

*At 3 dB down.

DIFFERENTIAL AMPLIFIERS

PART NUMBER	BW* (GHz)	DIFFERENTIAL GAIN*	trise (ns)	PROPAGATION DELAY (ns)	SUPPLY VOLTAGE (V)	Icc (mA)	PACKAGE
UPC1663B	0.7	10	2.7	1.2	±6	13	BF08
UPC1663C	0.7	10	2.7	1.2	±6	13	C08
UPC1663P	0.7	10	2.7	1.2	±6	13	CHIP
UPC1664C	0.7	10	2.7	1.2	±6	13	C14

*All gain select pins are open

SILICON PRESCALERS

PART NUMBER	FREQUENCY MAX	DIVIDING RATIO	INPUT SENSITIVITY MIN	OUTPUT AMPLITUDE	SUPPLY VOLTAGE (V)	PULSE SWALLOWING	POWER SUPPLY CONSUMPTION (mA) TYP
UPB551C	150 MHz	÷10/11, ÷20/22, ÷40/44	150 mVp-p	0.8 Vp-p	4.5 to 5.5	possible	38
UPB552C	150 MHz	÷10/11 (50 MHz), ÷20/22 (150 MHz), ÷40/44 (150 MHz)	150 mVp-p	1.2 Vp-p (TYP)	2.8 to 4.5	possible	5.6
UPB553AC	130 MHz	÷16/17	150 mVp-p	1.2 Vp-p (TYP)	5 V ± 10%	possible	8.9
UPB554C	150 MHz	÷10/11 (50 MHz), ÷20/22, ÷40/44 (150 MHz)	150 mVp-p	1.2 Vp-p (TYP)	5 V ± 10%	possible	5.6
UPB555C	150 MHz	÷8/9, ÷16/17, ÷32/33	150 mVp-p	1.2 Vp-p (TYP)	5 V ± 10%	possible	7
UPB556C	130 MHz	÷16/17	150 mVp-p	1.2 Vp-p (TYP)	3 V ± 10%	possible	9.4
UPB558G	260 MHz	÷2	60 mVp-p	150 mVp-p (MIN)	2.0 to 3.5	impossible	3.1
UPB562AC UPB562HA	1 GHz	÷64/68 (500 MHz), ÷128/136 (1 GHz)	400 mVp-p	1.2 Vp-p (TYP)	4.5 to 5.5	possible	23.0
UPB564C	1.3 GHz	÷64, ÷128, ÷256	400 mVp-p	1.44 Vp-p (MAX)	4.5 to 5.5	impossible	28
UPB565C	1 GHz	÷2 (500 MHz), ÷4, ÷8, ÷64 (1 GHz)	60 mVp-p	0.8 Vp-p (MAX)	4.5 to 5.5	impossible	43
UPB566C	980 MHz	÷64/65, ÷128/129	400 mVp-p	1.5 Vp-p (MAX)	4.8 to 5.2	possible	40
UPB567HA	1 GHz	÷8	30 mVp-p	1.7 Vp-p	4.5 to 5.5	impossible	26
UPB568C UPB568HA UPB568G	1 GHz	÷64/68 (500 MHz), ÷128/136 (1 GHz)	60 mVp-p	1.15 Vp-p	5 V ± 10%	possible	30
UPB569C	550 MHz	÷32/33, ÷64/65	160 mVp-p	1.4 Vp-p (MAX)	2.9 to 5.5	possible	5.6
UPB569G	550 MHz	÷32/33, ÷64/65	200 mVp-p	1.4 Vp-p (MAX)	2.9 to 5.5	possible	5.6
UPB571C	500 MHz	÷16/17, ÷32/33, ÷64/65	400 mVp-p	1.2 Vp-p (TYP)	4.5 to 5.5	possible	11
UPB572C	500 MHz	÷20/21, ÷40/41, ÷80/81	400 mVp-p	1.2 Vp-p (TYP)	4.5 to 5.5	possible	11