

# Additional Silicon Monolithic Circuit Products

T-90-10

NEC / CALIFORNIA

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## 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