

Integrated Circuits

T-74-13-01

Prescalers—Specifications

PART NUMBER	f_{max} (GHz)	DIVIDE RATIO	SUPPLY VOLTAGE (V)	SUPPLY CURRENT (mA)	PACKAGE STYLE
UPB558G	0.26	2	2.0 to 3.5	3.1	G08
UPB568HG	1.0	64/68, 128/136	4.5 to 5.5	30	G08
UPB569G	0.55	32/33, 64/65	2.9 to 5.5	5.6	G08
UPB584G	2.5	2	4.5 to 5.5	18	G08
UPB585G	2.5	4	4.5 to 5.5	26	G08
UPB586G	2.5	256, 512	4.5 to 5.5	28	G08
UPB587G	1.0	2, 4, 8	2.2 to 3.5	5.5	G08
UPB588G	2.5	64, 128	4.5 to 5.5	26	G08

Amplifiers—Specifications

PART NUMBER	FREQUENCY @ 3 dB DOWN (GHz)	MEASURE FREQ (GHz)	NOISE FIGURE (dB)	GAIN (NOTE 1) (dB)	TYP P_{out} (dBm)	DC POWER INPUTS		PACKAGE STYLE
						(V)	(mA)	
UPC1652G	1.2	0.5	5.5	18 L	5.0	5	20	G08
UPC1658G	1.1	0.5	2.0	17 L	5.0	10	15	G08
UPC1659G	1.75	1.0	5.0	23 P	3.0	10	21	G08
UPC1675G	1.9	0.5	5.5	12 P	4.5	5	17	39
UPC1676G	1.2	0.5	4.0	22 P	7.0	5	19	39
UPC1678G	1.9	0.5	6.0	23 P	18.0	5	48	G08
UPC1679G	1.9	0.5	6.0	22 P	17.0	5	42	G08
UPC1688G	1.1	0.5	4.0	21 P	4.0	5	19	39

Note 1: P = Power Gain
L = Linear Gain

Wideband Differential Amplifiers—Specifications

PART NUMBER	BANDWIDTH (TYP) (MHz)	DIFFERENTIAL VOLT GAIN (TYP)	RISE TIME (ns)	PROPAGATION DELAY (ns)	INPUT RESISTANCE (Kohm)	PACKAGE STYLE
UPC1663G						
Gain Mode #1	120	320	2.9	2.0	4.0	G08
Gain Mode #2	700	10	2.7	1.2	180	G08

Transistor Arrays—Specifications

PART NUMBER	NUMBER OF XTRS	f_T OF EACH XTR (GHz)	I_C MAX OF EACH XTR (mA)	BREAKDOWN VOLTS			PACKAGE STYLE
				C_{BO} (V)	C_{EO} (V)	E_{BO} (V)	
UPA101G	6	9.0	40	15	6	2.5	G08
UPA102G	6	9.0	40	15	6	2.5	G14
UPA103G	5	9.0	40	15	6	2.5	G14
UPA104G	6	9.0	40	15	6	2.5	G14

Down Converters—Specifications

PART NUMBER	FREQ RANGE (MHz)	I_F FREQ (dB)	CONVERSION GAIN (MHz)	OSCILLATOR FREQ	PACKAGE STYLE
UPC1685G	500 TO 900	30 TO 80	12	550 TO 950	G08
UPC1686G	55 TO 900	30 TO 80	20	100 TO 940	G08
UPC1687G	500 TO 900	30 TO 80	24	550 TO 950	G08