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SP4666



DS2219 - 2.4

The SP4666 is a selectable division ratio high speed divider capable of replacing separate fixed ratio ECL prescalers with a single part in applications with alternative \div 64 and \div 256 division requirements.

ZARLINK

SEMICONDUCTOR

A switched low pass filter with -3dB points at $5\cdot3MHz$ and $15\cdot6MHz$ is connected before the output stage to reduce the harmonic content to a very low level.

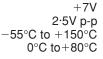
FEATURES

- Switched Low Pass Filter for Very Low Output Radiation
- Low Supply Current
- Input Wideband Amplifier
- High Input Sensitivity
- High Input Impedance
- Balanced ECL Outputs
- Electrostatic Protection †

† ESD precautions must be observed

ABSOLUTE MAXIMUM RATINGS

Supply voltage, V _{CC}
Input voltage
Storage temperature
Operating temperature range



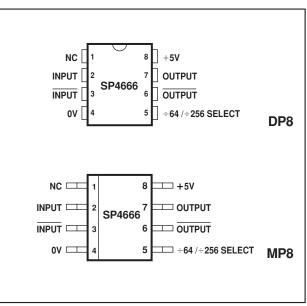


Fig 1. Pin connections - top view

ORDERING INFORMATION SP4666 NA DP SP4666 NA MP

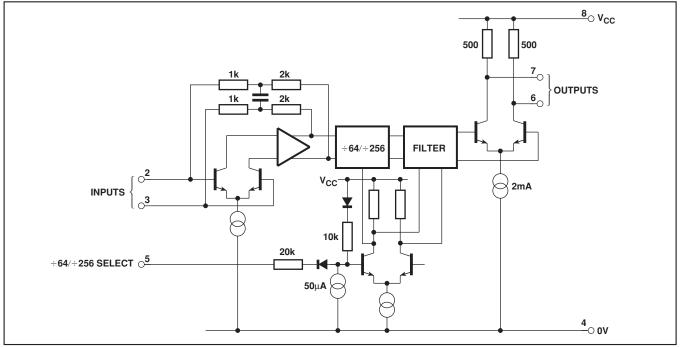


Fig. 2 SP4666 block diagram

SP4666 ELECTRICAL CHARACTERISTICS

These characteristics are guaranteed over the following conditions (unless otherwise stated):

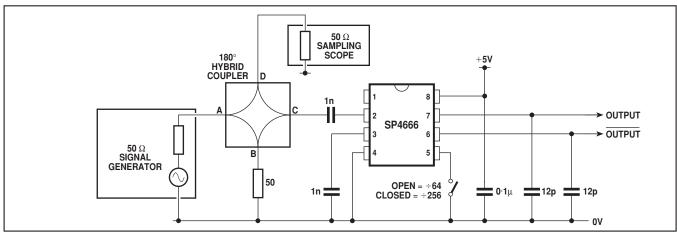
Characteristic Pin		Value			Units	0
	1-111	Min.	Тур.	Max.	Units	Conditions
Supply current, I _{CC}	8		23	30	mA	$V_{CC} = +5V$
Input sensitivity	2,3					RMS sinewave (50 Ω system)
50MHz			2.5	10	mV	
200MHz to 1050MHz			0.2	5	mV	
1050MHz to 1300MHz				10	mV	
Input overload	2,3	500			mV	
Input impedance	2,3		50		Ω	See Fig. 6
			2		pF	
Output voltage with 12pF load	6,7	0.8	1		V р-р	÷64 mode, f _{IN} = 100MHz
		0.8	1		V р-р	÷256 mode, f _{IN} = 100MHz
		0.4	0.2		V р-р	÷64 mode, f _{IN} = 1000MHz
		0.7	0.9		V р-р	÷256 mode, f _{IN} = 1000MHz
		0.25	0.32		V р-р	÷64 mode, f _{IN} = 1300MHz
		0.6	0.7		V р-р	÷256 mode, f _{IN} = 1300MHz
Output impedance	6,7		500		Ω	
Output imbalance	6,7		0.1		V	
Voltage for ÷256 operation	5			0.2	V	
Voltage for ÷64 operation	5	3.2			V	See note 1
Sink current for ÷256 operation	5			250	μA	Vpin5 = 0V

 $T_{AMB} = 0^{\circ}C$ to $+80^{\circ}C$, $V_{CC} = 4.5V$ to 5.5V (Test circuit see Fig. 3)

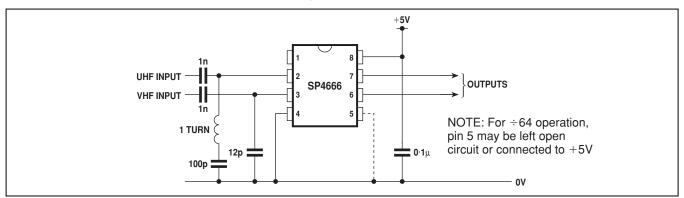
NOTES

1. Pin 5 has an internal pull-up and may be left open-circuit for \div 64 operation.

 The difference between the maximum input sensitivity and minimum overload voltage is the guaranteed dynamic range. Input signal levels should be maintained within these limits at all frequencies.









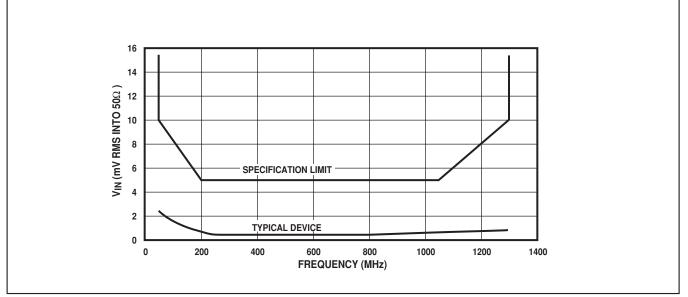


Fig. 5 Typical input sensitivity

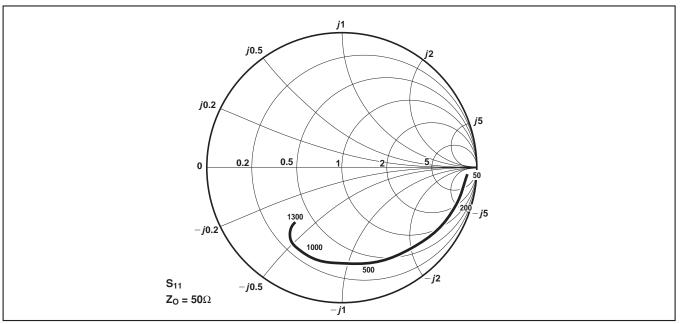


Fig. 6 Typical input impedance (frequencies in MHz)



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