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ZARLINK SEMICONDUCTOR

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SP8607 600MHz÷2

The SP8607 is an emitter coupled logic divider which features ECL10K compatible outputs when used with external pulldown resistors. The inputs are AC coupled.

FEATURES

- ECL Compatible Outputs
- AC-Coupled Inputs (Internal Bias)

QUICK REFERENCE DATA

- Supply Voltage: −5·2V
- Power Consumption: 80mW
- Temperature Range:
  −55°C to +125°C (A Grade)
  −30°C to +70°C (B Grade)

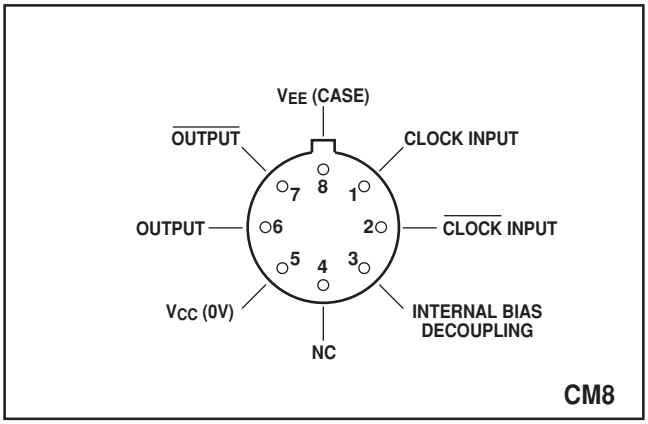


Fig. 1 Pin connections - bottom view

ABSOLUTE MAXIMUM RATINGS

Supply voltage, V_{EE}	−8V
Output current	10mA
Storage temperature range	−65°C to +150°C
Max. junction temperature	+175°C
Max. clock input voltage	2·5V p-p

ORDERING INFORMATION

SP8607 A CM
SP8607 B CM
SP8607 AC CM

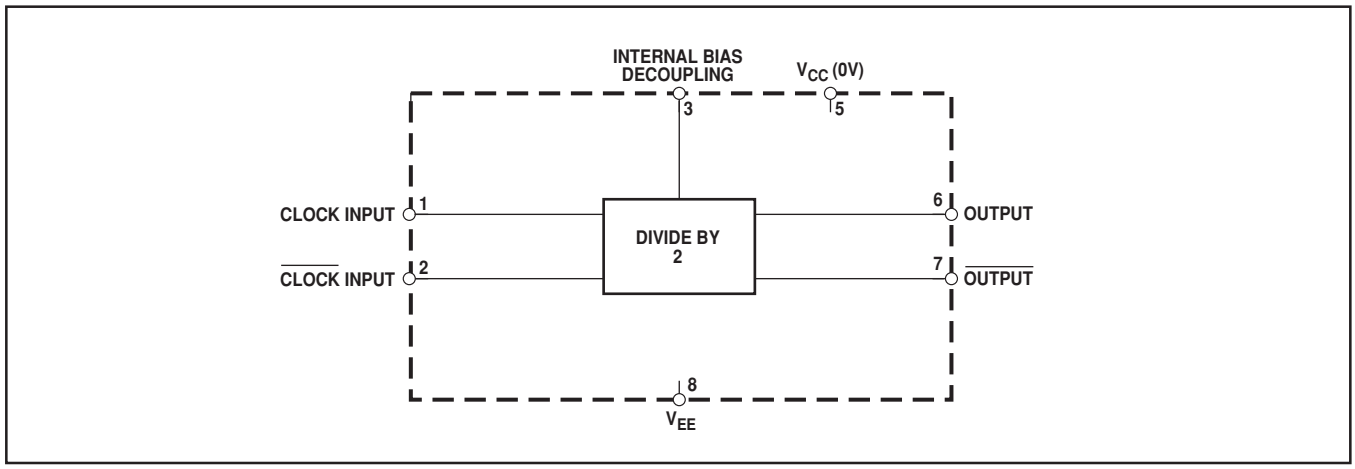


Fig. 2 Functional diagram

ELECTRICAL CHARACTERISTICS

Unless otherwise stated, the Electrical Characteristics are guaranteed over specified supply, frequency and temperature range
Supply voltage, V_{CC} = 0V, V_{EE} = −5·2V ± 0·25V
Temperature, T_{AMB} = −55°C to +125°C (A Grade), −30°C to +70°C (B Grade)

Characteristic	Symbol	Value		Units	Conditions	Notes
		Min.	Max.			
Maximum frequency (sinewave input)	f_{MAX}	600		MHz	Input = 400-800mV p-p	
Minimum frequency (sinewave input)	f_{MIN}		40	MHz	Input = 400-800mV p-p	
Power supply current	I_{EE}		18	mA	V_{EE} = −5·2V, outputs unloaded	
Output low voltage	V_{OL}	−1·8	−1·4	V	V_{EE} = −5·2V	3
Output high voltage	V_{OH}	−0·85	−0·7	V	V_{EE} = −5·2V	3
Minimum output swing	V_{OUT}	400		mV	V_{EE} = −5·2V	

NOTES
1. The temperature coefficients of V_{OH} = +1·63mV/°C, and V_{OL} = +0·34mV/°C but these are not tested.
2. The test configuration for dynamic testing is shown in Fig.5.
3. Tested at 25°C only.

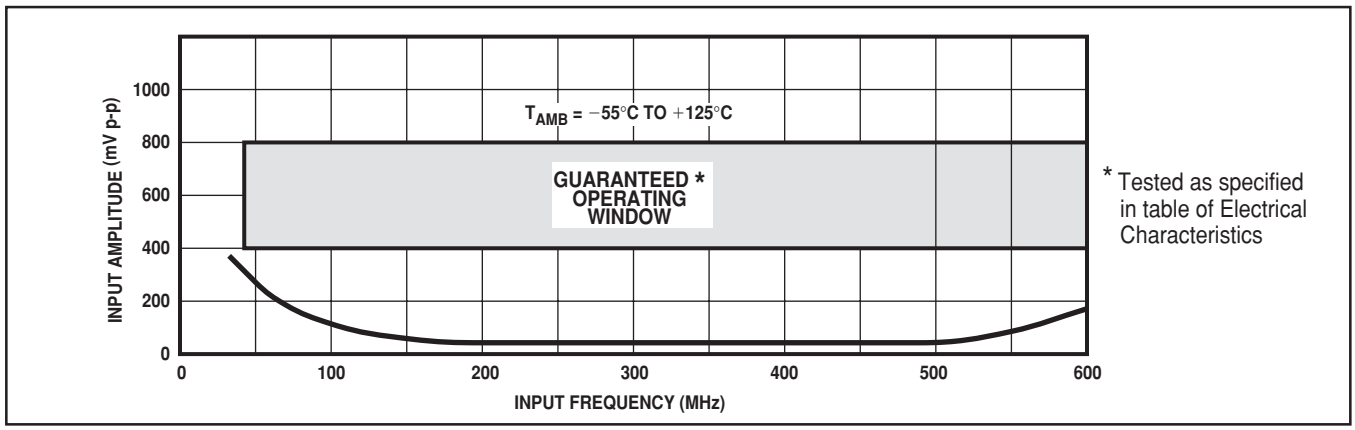


Fig. 3 Typical input characteristic of SP8607A

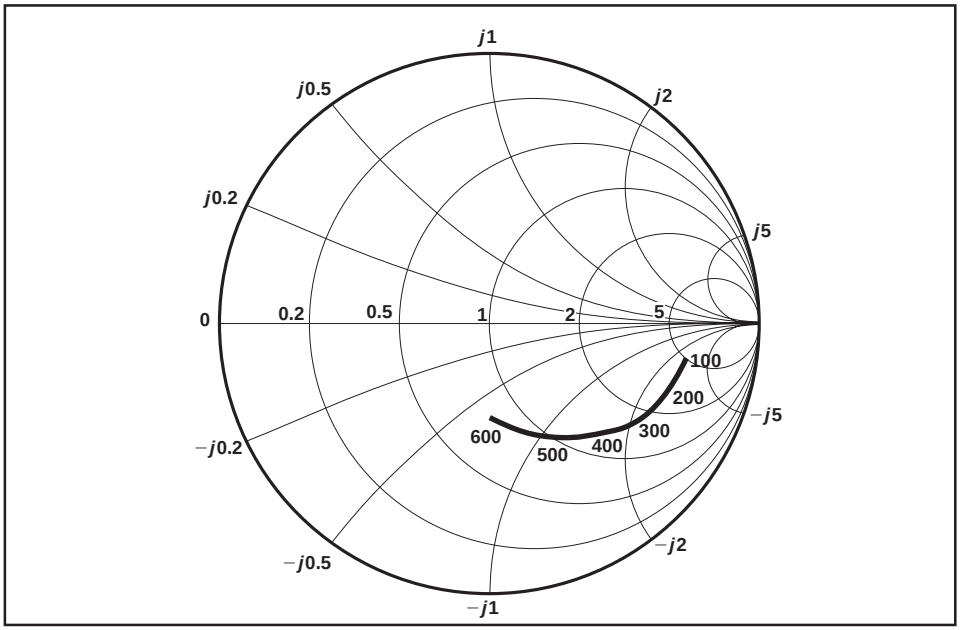


Fig. 4 Typical input impedance. Test conditions: supply voltage = −5·2V, ambient temperature = 25°C, frequencies in MHz, Impedances normalised to 50Ω

OPERATING NOTES

1. The clock inputs (pins 1 and 2) can be driven single ended or differentially and should be capacitively coupled to the signal source. The input signal path is completed by connecting a capacitor from the internal bias decoupling, pin 3, to ground.
2. In the absence of a signal the device will self-oscillate. If this is undesirable, it may be prevented by connecting a 15kΩ resistor from the unused input to V_{EE}. This will reduce the input sensitivity by approximately 100mV.
3. The circuit will operate down to DC but slew rate must be better than 100V/μs.
4. The outputs are compatible with ECLII. There is an internal load of 4kΩ on each output. The outputs can be interfaced to ECL10K by the addition of 1·5kΩ pulldown resistors from the outputs to V_{EE} to increase output voltage swing.
5. Input impedance is a function of frequency, See Fig. 4.
6. All components should be suitable for the frequency in use.

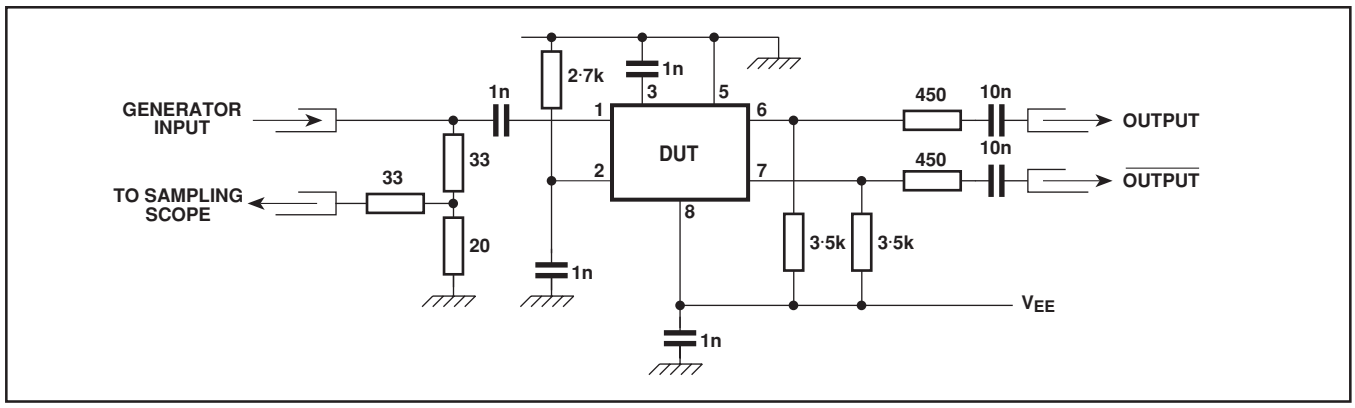


Fig. 5 Test circuit

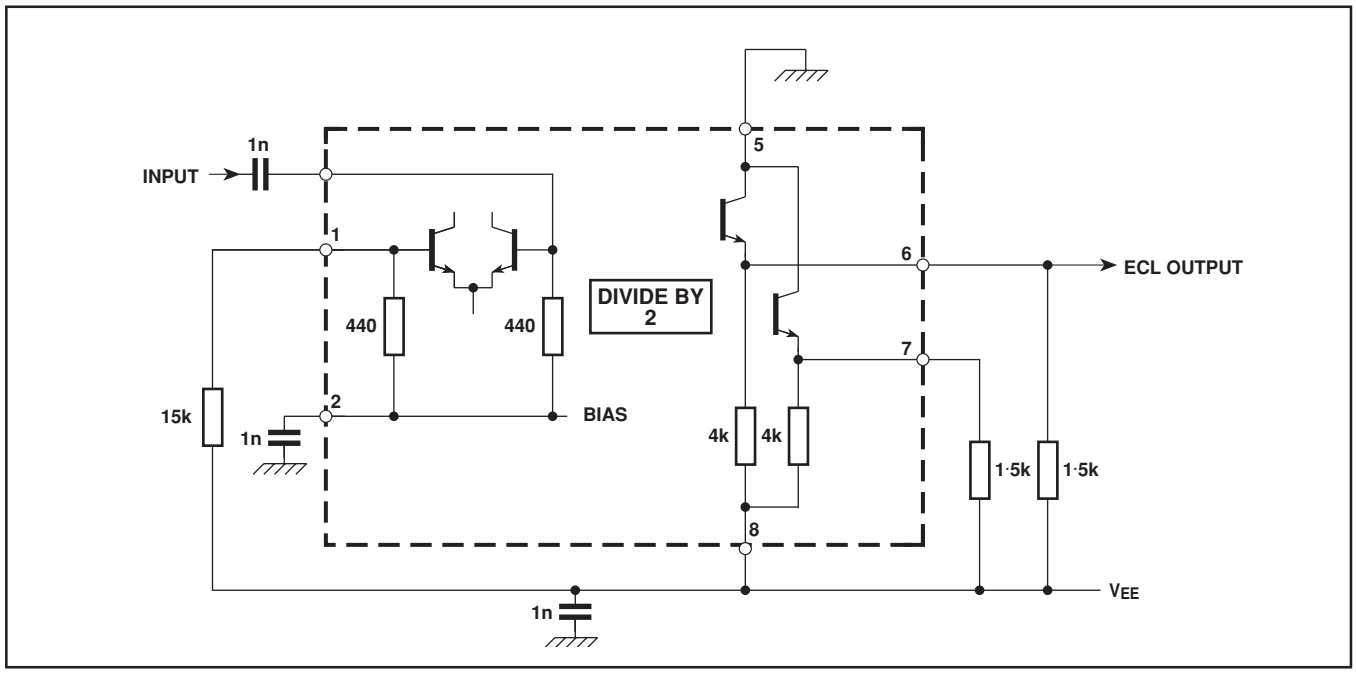
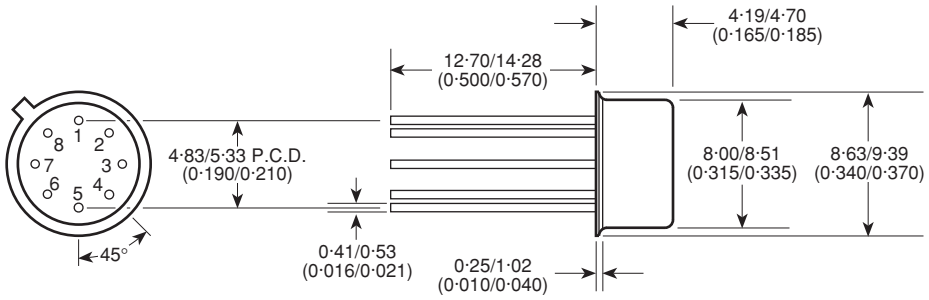


Fig. 6 Typical application showing interfacing

PACKAGE DETAILS

Dimensions are shown thus: mm (in).



NOTES
1. Controlling dimensions are inches.
2. This package outline diagram is for guidance only. Please contact your GPS Customer Service Centre for further information.

8-LEAD METAL CAN - CM8

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