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SP8704

DS 3289 -1

950MHz VERY LOW CURRENT MULTI-MODULUS DIVIDER

The SP8704 is a switchable divide by 128/129, 64/65 programmable divider with a maximum specified operating frequency of 950MHz.

The signal (clock) inputs are biased internally and require to be capacitor coupled.

The SP8704 will operate from any supply from 3V to 5V and features full electrostatic discharge protection.

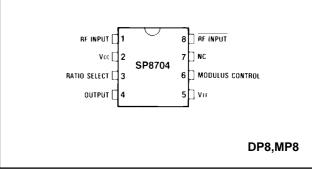


Fig. 1 Pin connections - top view

FEATURES

DC to 950MHz Operation

- -40°C to +85°C Temperature Range
- Operation from 3V to 5V Supply
- ESD Protection on all Pins

QUICK REFERENCE DATA

Follower



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S	Sup	ply	v vo	ltag	е						

Supply voltage	7V
Storage temperature range	-55°C to +125°C
Junction temperature	+175°C
Input voltage	2.5V p-p

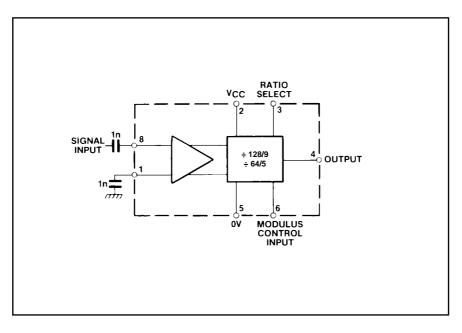


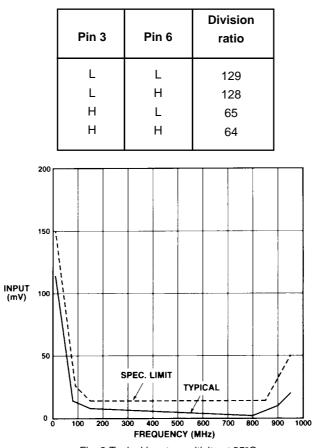
Fig. 2 Functional diagram SP8704

ELECTRICAL CHARACTERISTICS

Test conditions (unless otherwise stated): $T_{amb} = -40^{\circ}C$ to $85^{\circ}C$, VCC = +2.75V to +5.5V

Characteristic		Value		Units	Conditions		
	Min.	Тур.	Max.	Units			
Supply current			10		mA	Including output emitter follower	
Input sensitivity	10MHz			150	mV rms	Sinewave input into 50	
	80MHz			25			
	150MHz			15			
	850MHz			15			
	950MHz			50			
Input impedance			50				
			2		pF		
Output			1		V pk-pk	Emitter follower output	
						current source = 0.75mA	
Ratio select (pin 3)	LO			1	V	128/129 selected	
	HI	V _{cc}			V	64/65 selected	
Modulus control (pin 6)	LO			1	V	65 or 129 selected	
	HI	2			V	64 or 128 selected	
Clock to output delay			8		ns		
Set up time			16		ns		
Release time			16		ns		

TRUTH TABLE



SP8704

SP8704



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