



# General Electronic Devices

Makers of active and passive components  
 Quartz Crystal \* Oscillators \* Synthesizer \* Filters  
 Micro-Hybrid Assembly Services

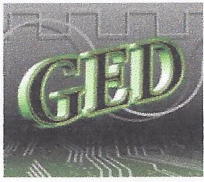
## SMD914E.3B-ED-155.520MHz

Surface Mount-9x14mm Ceramic Package  
 6-"J" lead Oscillator  
 Output: Differential PECL  
 Operating Voltage: 3.3V

### Electrical Specifications

This device is Lead free / ROHs compliant

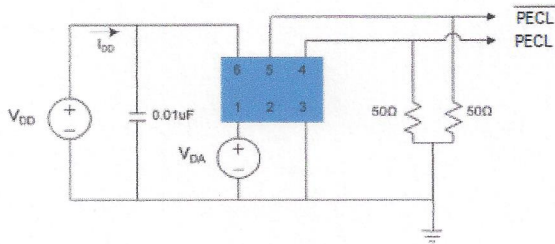
Item	Symbol	Specification	
Output frequency	f <sub>o</sub>	155.520MHz	
Power source voltage	Operating voltage	V <sub>CC</sub>	3.3 V ± 0.3 V
Temperature range	Storage temperature	T <sub>STG</sub>	-55 °C to +125 °C
	Operating temperature	T <sub>OPR</sub>	0 °C to +70 °C
Frequency Tolerance		± 20ppm @ 25°C	
Frequency Stability	f/f <sub>o</sub>	50ppm	
Current consumption	I <sub>CC</sub>	80mA Max.	
Output disable current	I <sub>OE</sub>	20 mA Max.	
Duty	T <sub>wt</sub>	45% to 55%	
Output voltage	V	V <sub>ol</sub> : 1.7V	V <sub>oh</sub> : 2.2V
Output load condition	R <sub>L</sub>	124 ohms output to vdd; 82 ohms output to ground	
Output enable input voltage	V <sub>IN</sub>	70% V <sub>CC</sub> Min.	
Output disable input voltage	V <sub>IL</sub>	30% V <sub>CC</sub> Max	
Output rise fall time	t <sub>F</sub> / t <sub>R</sub>	400 ps Max.	
Oscillator start up time	t <sub>OSC</sub>	10 ms Max.	
Jitter *4	t <sub>RJ</sub>	3 ps Typ.	
	t <sub>RMS</sub>	3 ps Typ.	
	T <sub>p-p</sub>	25 ps Typ.	
Phase jitter	T <sub>PJ</sub>	2.5 ps Max.	
Phase Noise		-120dbc/HZ Typ.	



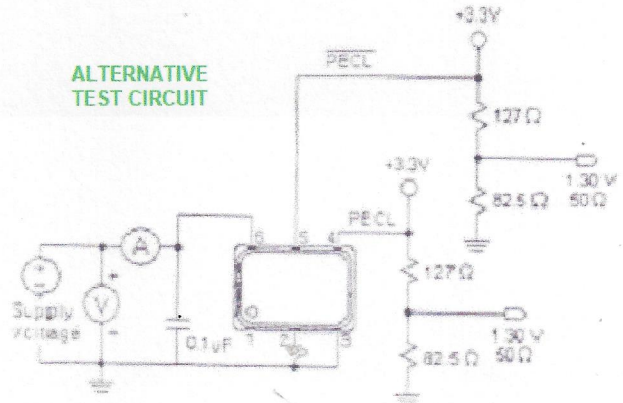
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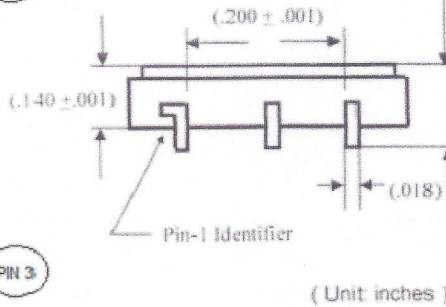
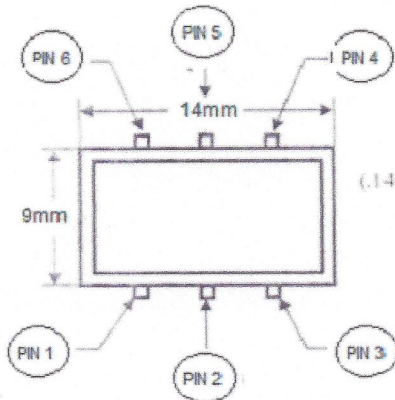
TEST CIRCUIT



ALTERNATIVE TEST CIRCUIT



## DRAWING OUTLINE



PIN CONFIGURATION	
Pin 1	N/C or High Enable
Pin 2	N/C or High Enable
Pin 3	GND
Pin 4	OUTPUT
Pin 5	OUTPUT
Pin 6	VDD

( Unit inches )



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