



General Electronic Devices

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

SMD914E.3B-ED- 12.500MHZ

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

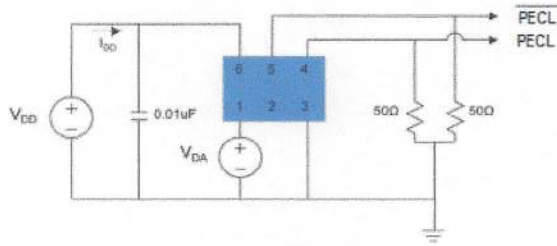
Item	Symbol	Specification
Output frequency	fo	12.500MHz
Power source voltage	Operating voltage	Vcc 3.3 V ± 0.3 V
Temperature range	Storage temperature	TSTG -55 °C to +125 °C
	Operating temperature	TOPR 0 °C to +70 °C
Frequency Tolerance		± 20ppm @ 25°C
Frequency Stability	f/fo	50ppm
Current consumption	Icc	80mA Max.
Output disable current	Ioc	20 mA Max.
Duty	Twh	45% to 55%
Output voltage	V	Vol: 1.7V Voh: 2.2V
Output load condition	Rl	124 ohms output to vdd; 82 ohms output to ground
Output enable input voltage	Vih	70% Vcc Min.
Output disable input voltage	Vil	30% Vcc Max
Output rise fall time	tr / tf	400 ps Max.
Oscillator start up time	tosc	10 ms Max.
Jitter *4	trj	3 ps Typ.
	trms	3 ps Typ.
	Tp-p	25 ps Typ.
Phase jitter	TpJ	2.5 ps Max.
Phase Noise		-120dbc/HZ Typ.



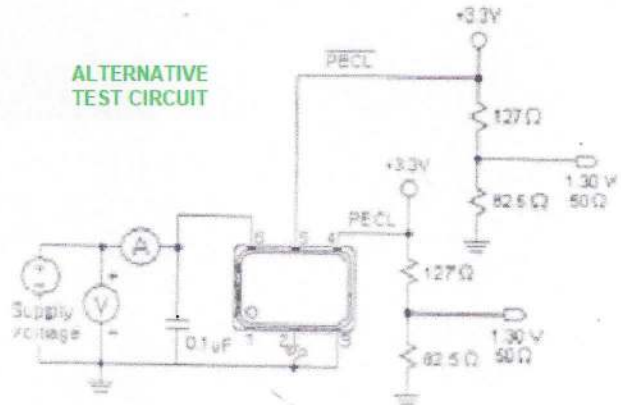
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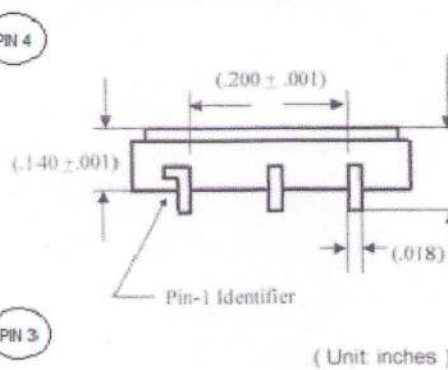
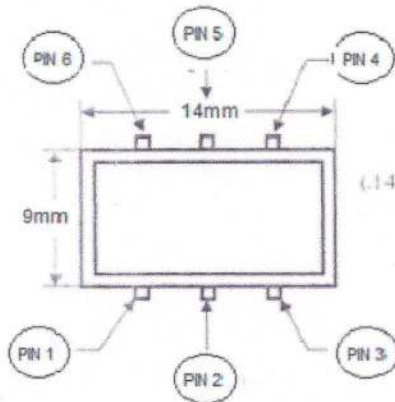
TEST CIRCUIT



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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