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RRD-B30M115/Printed in U. S. A.

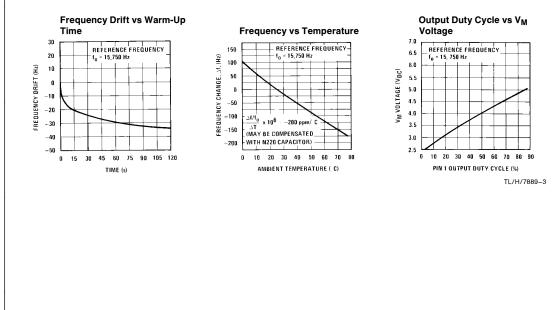
Absolute Maximum Rat	ings			
If Military/Aerospace specified dev	vices are required,	Flyback Input Voltage (Pin 4)	5.0 Vp-p	
please contact the National Semiconductor Sales Office/Distributors for availability and specifications.		Power Dissipation (Package Limitation) Plastic Package (Note 1)	1000 mW	
Supply Current	40 mA _{DC}	Operating Temperature Range (Ambient)	0°C to +70°C	
Output Voltage	40 V _{DC}	Storage Temperature Range	-65°C to +150°C	
Output Current	30 mA _{DC}	Lead Temperature (Soldering, 10 sec.)	260°C	
Sync Input Voltage (Pin 3)	5.0 Vp-p			

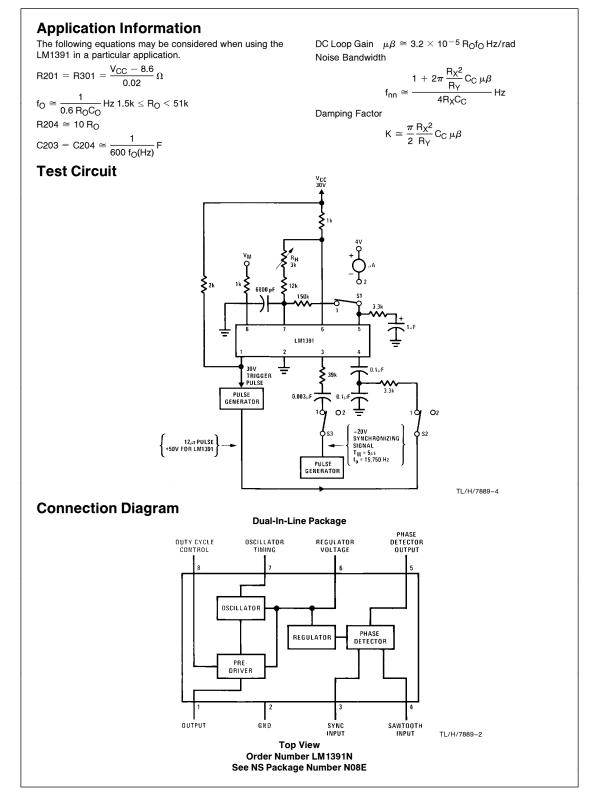
Electrical Characteristics $T_A = 25^{\circ}C$ (see test circuit, all switches in position 1)

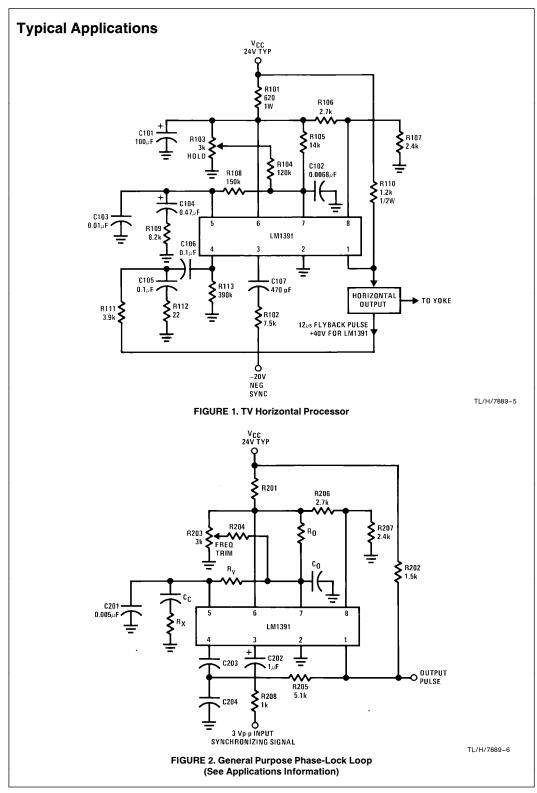
Parameter	Conditions	Min	Тур	Max	Units
Regulated Voltage (Pin 6)	$I_6 = 22 \text{ mA}_{\text{DC}}$	8.0	8.6	9.2	V _{DC}
Supply Current (Pin 6)			20		mA _{DC}
Collector-Emitter Saturation Voltage of Output Transistor (Pin 1)	$I_{C1} = 20 \text{ mA}$		0.30	0.40	V _{DC}
Pin 4 Voltage			2.0		V _{DC}
Oscillator Pull-in Range	Adjust R _H		±300		Hz
Oscillator Hold-in Range	Adjust R _H		±900		Hz
Static Phase Error	$\Delta f = 300 \text{ Hz}$		0.5		μs
Free-running Frequency Supply Dependance	S1 in position 2		±3.0		Hz/V _{DC}
Phase Detector Leakage (Pin 5)	All switches in position 2			±1.0	μΑ
Sync Input Voltage (Pin 3)		2.0		5.0	Vp-p
Sawtooth Input Voltage (Pin 4)		1.0		3.0	Vp-p
Maximum Oscillator Frequency			500		kHz

Note 1: For operation in ambient temperatures above 25°C, the device must be derated based on a 150°C maximum junction temperature and a thermal resistance of 120°C/W junction to ambient.

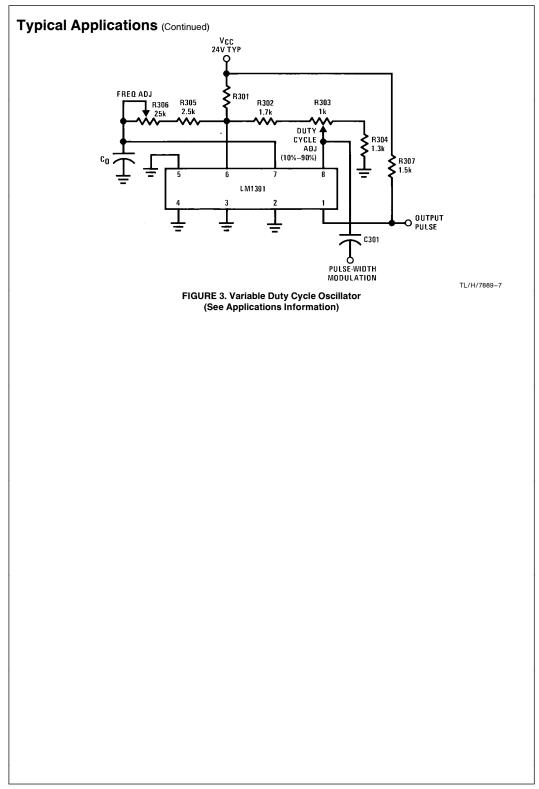
Typical Performance Characteristics



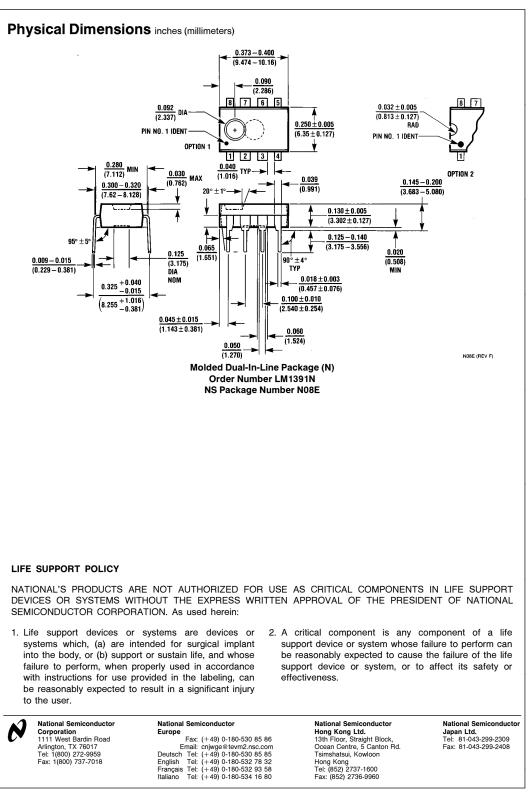








LM1391 Phase-Locked Loop



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Datasheets for electronic components.

National Semiconductor was acquired by Texas Instruments.

http://www.ti.com/corp/docs/investor_relations/pr_09_23_2011_national_semiconductor.html

This file is the datasheet for the following electronic components:

LM1391N - http://www.ti.com/product/Im1391n?HQS=TI-null-null-dscatalog-df-pf-null-wwe