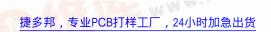
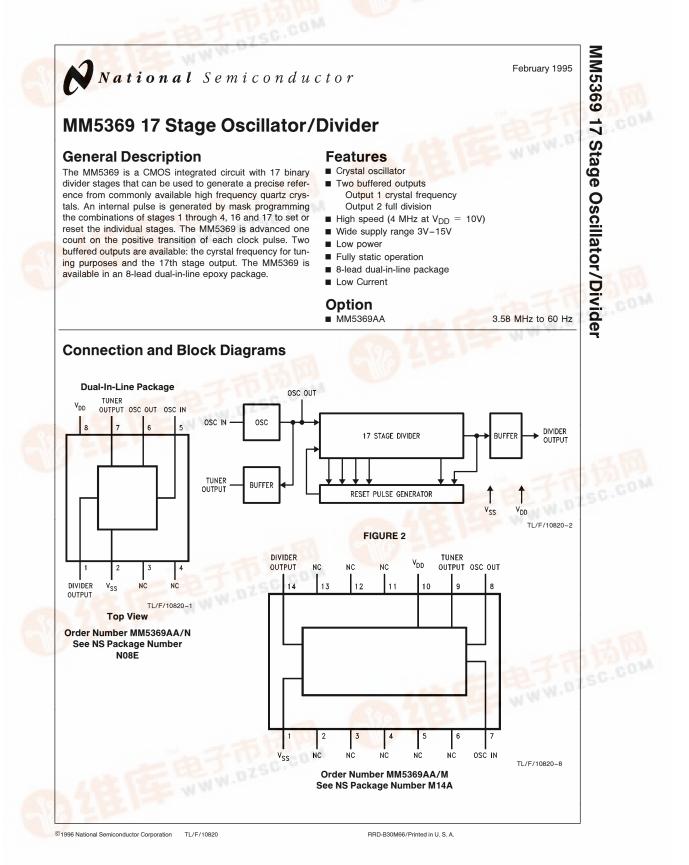
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Absolute Maximum	Ratings		
If Military/Aerospace specifi	ed devices are required,	Package Dissipation	500 mW
please contact the National Semiconductor Sales Office/Distributors for availability and specifications.		Maximum V _{CC} Voltage	16V
Voltage at Any Pin Operating Temperature Storage Temperature	-0.3V to V _{DD} +0.3V 0°C to +70°C -65°C to +150°C	Operating V _{CC} Range Lead Temperature (Soldering, 10 seconds)	3V to 15V) 300°C

Electrical Characteristics

 T_A within operating temperature range, V_{SS} = GND, 3V \leq V_{DD} \leq 15V unless otherwise specified.

Parameter	Conditions	Min	Тур	Max	Units
Quiescent Current Drain	$V_{DD} = 15V$			10	μΑ
Operating Current Drain	$V_{DD} = 10V$, f _{IN} = 4.19 MHz		1.2	2.5	mA
Frequency of Oscillation	$V_{DD} = 10V$ $V_{DD} = 6V$	DC DC		4.5 2	MHz MHz
Output Current Levels	$V_{DD} = 10V$ $V_{O} = 5V$				
Logical "1" Source Logical "0" Sink		500 500			μΑ μΑ
Output Voltage Levels	$V_{DD} = 10V$ $I_{O} = 10 \ \mu A$				· · · · ·
Logical ''1'' Logical ''0''		9.0		1.0	V V

Note: For 3.58 MHz operation, V_{DD} must be $\geq\,$ 10V.

Functional Description

A connection diagram for the MM5369 is shown in *Figure 1* and a block diagram is shown in *Figure 2*.

TIME BASE

A precision time base is provided by the interconnection of a 3,579,545 Hz quartz crystal and the RC network shown in *Figure 3* together with the CMOS inverter/amplifier provided between the OSC IN and the OSC OUT terminals. Resistor R1 is necessary to bias the inverter for class A amplifier operation. Capacitors C1 and C2 in series provide the parallel load capacitance required for precise tuning of the quartz crystal.

The network shown provides > 100 ppm tuning range when used with standard crystals trimmed for C_L = 12 pF. Tuning to better than ± 2 ppm is easily obtainable.

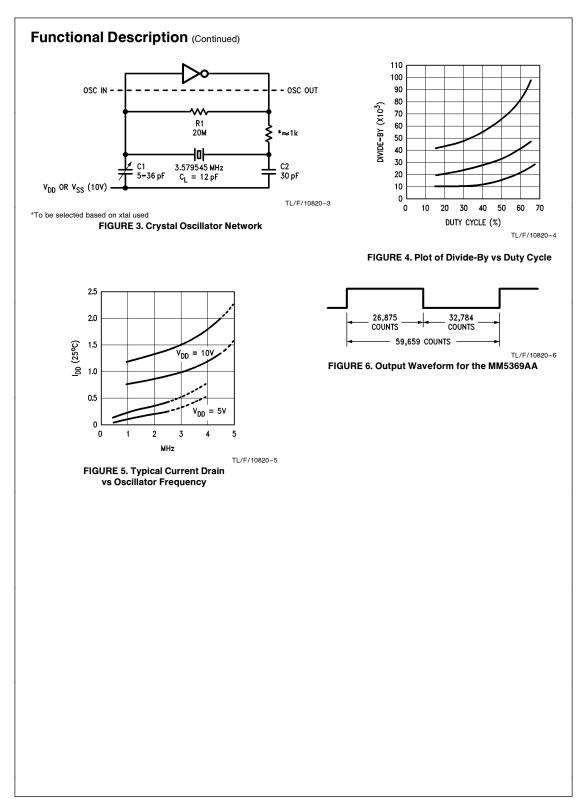
DIVIDER

A pulse is generated when divider stages 1 through 4, 16 and 17 are in the correct state. By mask options, this pulse is used to set or reset individual stages of the counter. *Figure 4* shows the relationship between the duty cycle and the programmed modulus.

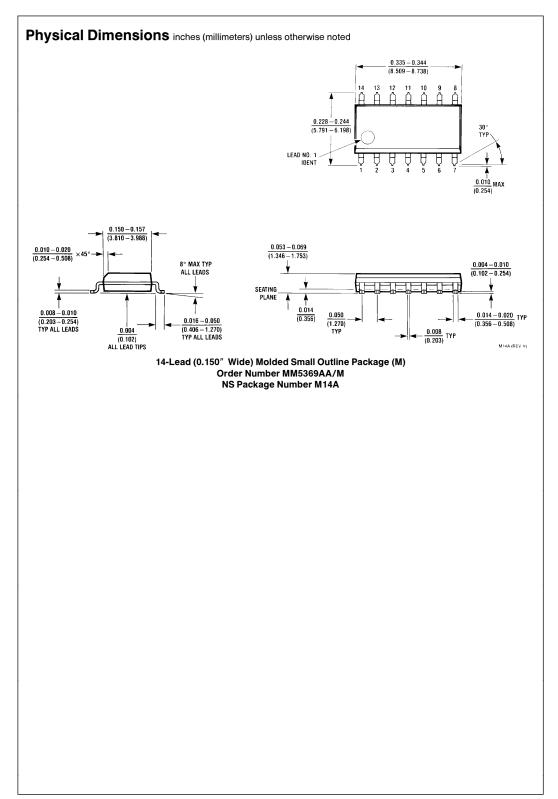
OUTPUTS

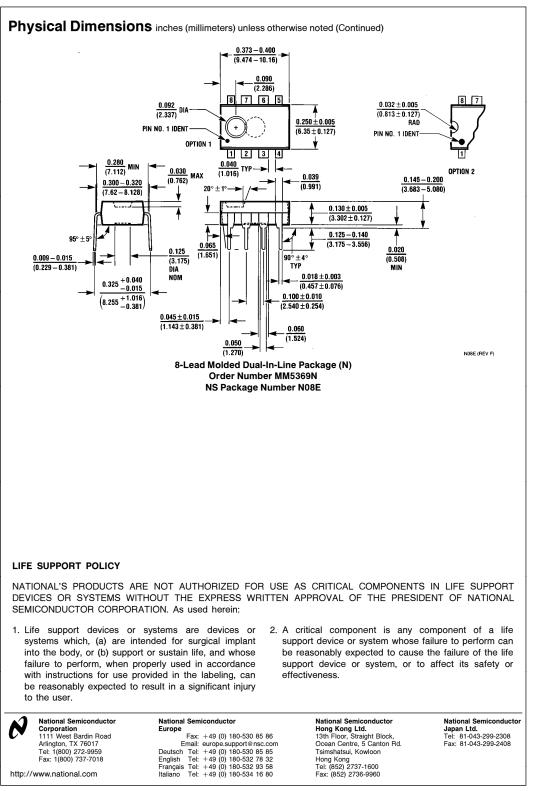
The Tuner Output is a buffered output at the crystal oscillator frequency. This output is provided so that the crystal frequency can be obtained without disturbing the crystal oscillator. The Divide Output is the input frequency divided by the mask programmed number. Both outputs are push-pull outputs.

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