

Signetics

Integrated Circuits – Phase Locked Loop

NE567 – Tone Decoder/ Phase Locked Loop

GENERAL DESCRIPTION

The SE/NE567 tone and frequency decoder is a highly stable phase-locked loop with synchronous AM lock detection and power output circuitry. Its primary function is to drive a load whenever a sustained frequency within its detection band is present at the self-biased input. The bandwidth centre frequency, and output delay are independently determined by means of four external components.

FEATURES

- Wide frequency range (.01Hz to 500kHz)
- High stability of centre frequency
- Independently controllable bandwidth (up to 14 percent)
- High out-band signal and noise rejection
- Logic-compatible output with 100mA current sinking capability
- Inherent immunity to false signals
- Frequency adjustment over a 20 to 1 range with an external resistor
- Military processing available

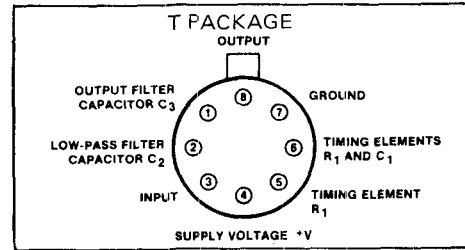
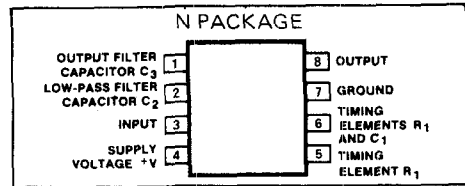
APPLICATIONS

- Touch Tone® decoding
- Carrier current remote controls
- Ultrasonic controls (remote TV, etc.)
- Communications paging
- Frequency monitoring and control
- Wireless intercom
- Precision oscillator

REFERENCE TABLE

TYPE NO.	STOCK NO.	OUTLINE DRWG. NO.
NE567N	56051H	8
NE567T	56052F	7

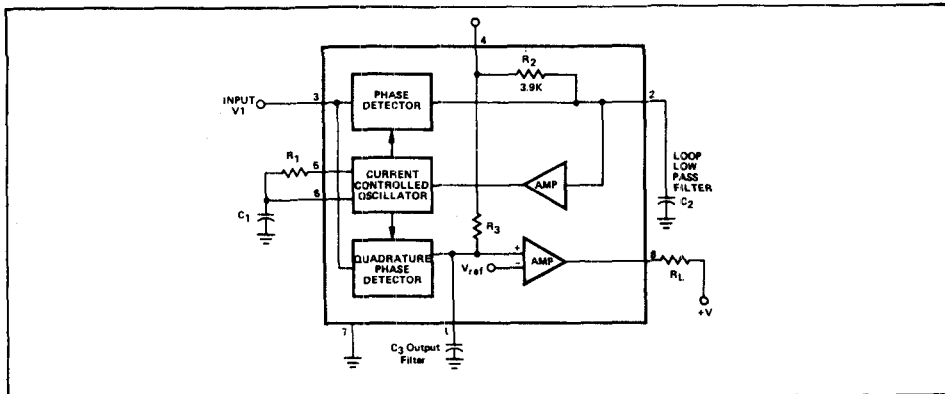
CONNECTION DIAGRAM



MAXIMUM RATINGS

PARAMETER	RATING	UNIT
Operating temperature		
NE567	0 to +70	°C
SE567	-55 to +125	°C
Operating voltage	10	V
Positive voltage at input	0.5 + V _S	V
Negative voltage at input	-10	Vdc
Output voltage (collector of output transistor)	15	Vdc
Storage temperature	-65 to +150	°C
Power dissipation	300	mW

BLOCK DIAGRAM

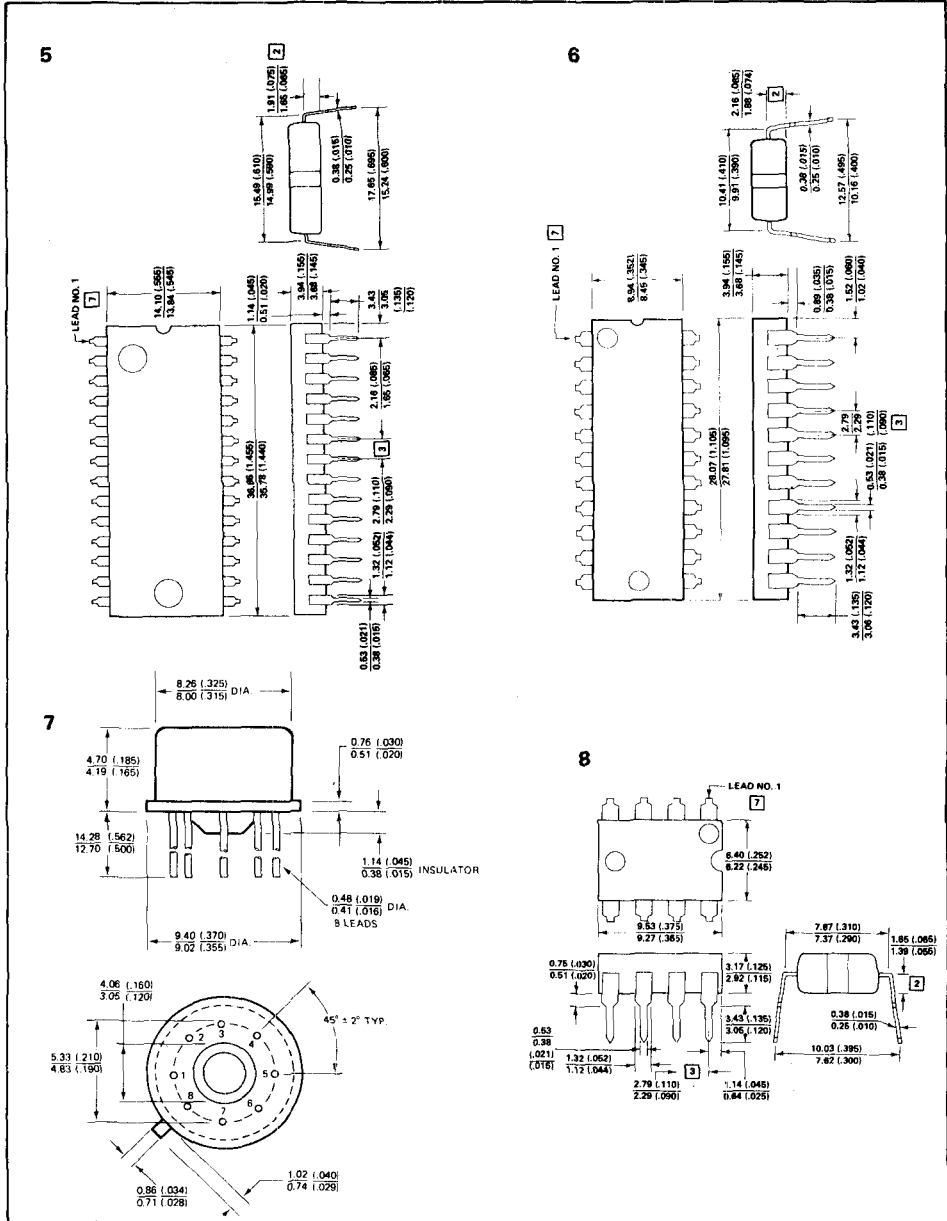


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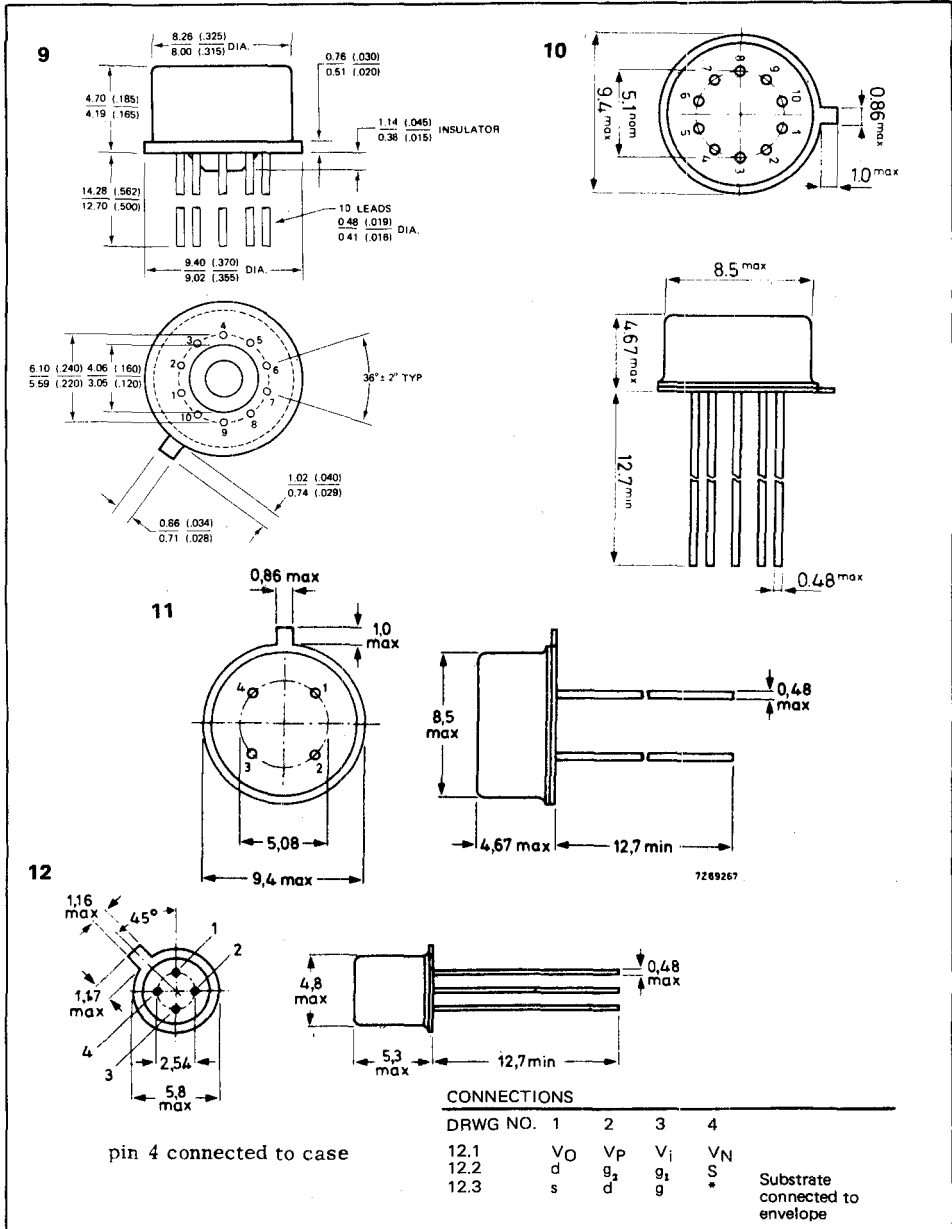
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Outline Drawings



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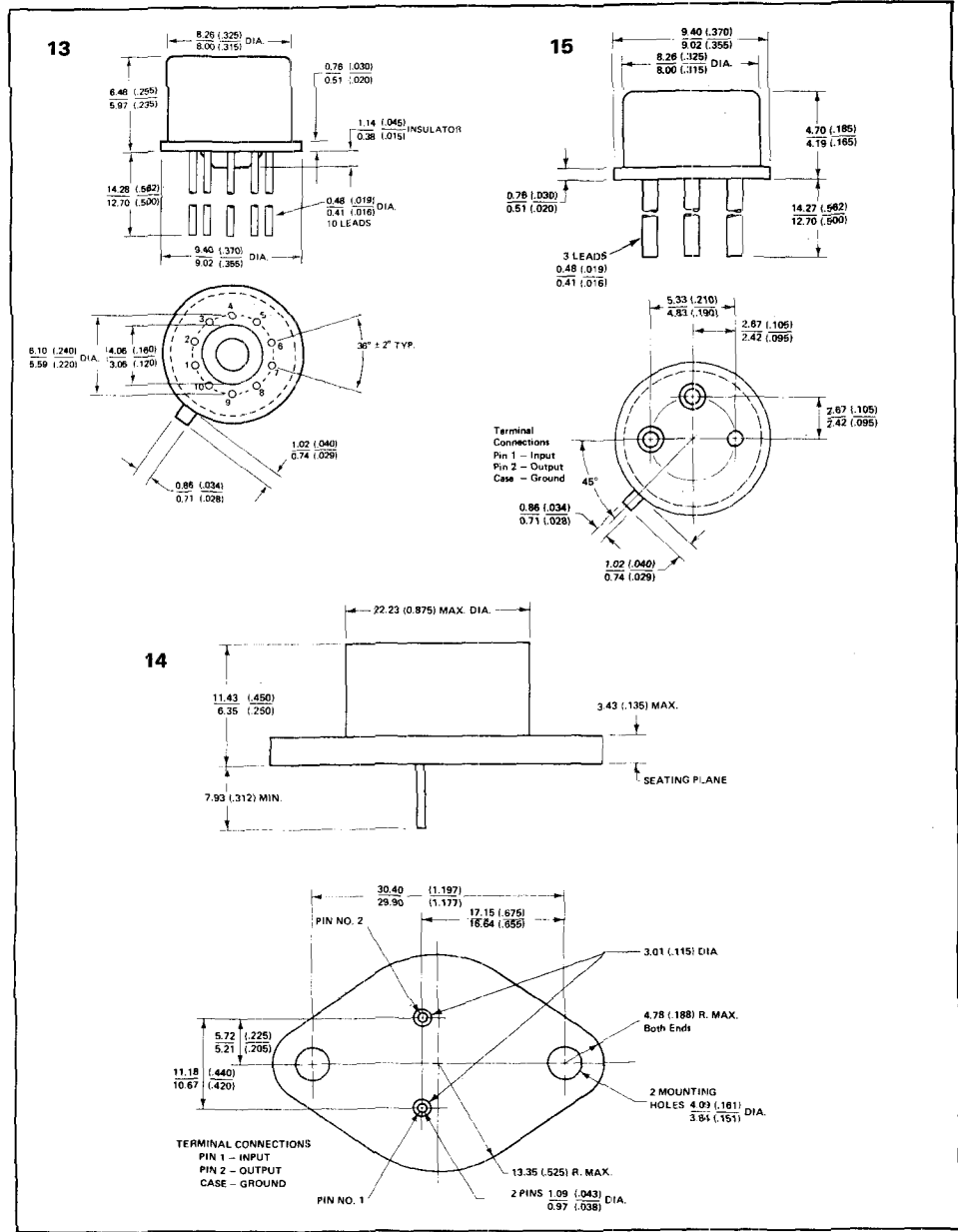


PLEASE QUOTE STOCK NO.
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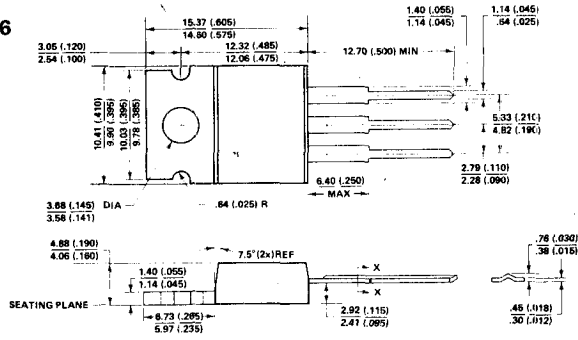
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Outline Drawings

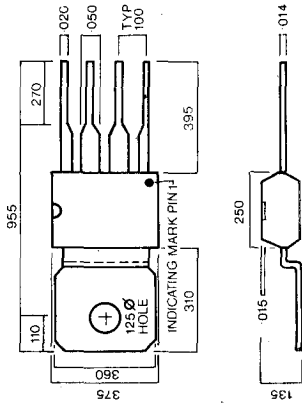


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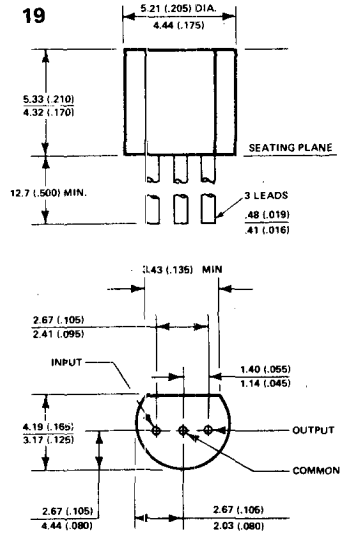
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