

# Signetics

## Integrated Circuits – Voltage Regulator

### NE5551/2/3/4/5 Series – Dual Polarity Tracking Regulator

#### GENERAL DESCRIPTION

The NE/SE5551, 2, 3, 4, 5 are dual polarity tracking regulators designed to produce balanced or unbalanced output voltages from 5 to 20 volts with up to 300 mA output current. Similar in specifications to the 78MXX and 79MXX fixed regulators, the 5551 series can be continuously adjusted, balanced or unbalanced. Standard fixed voltages available are  $\pm 5$ ,  $\pm 6$ ,  $\pm 12$ ,  $\pm 15$ , and  $\pm 5$ ,  $-12$  volts. Employing current limiting and thermal shutdown protection, these dual polarity regulators are ideal for local on-card regulation.

#### FEATURES

- Output current to 300mA
- Internally current limited
- Thermal overload protected
- Input voltage to  $\pm 32$ V
- Output balance 1% typ.
- External balance control
- Continuously adjustable from 5 to 20 volts, balanced or unbalanced
- No external components required
- Short circuit current 400mA
- Heat sink available for increased power dissipation

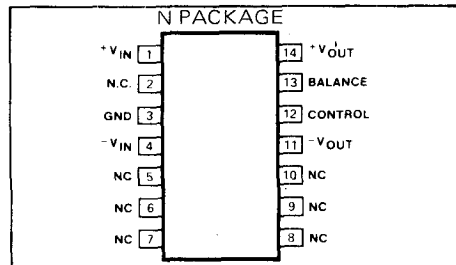
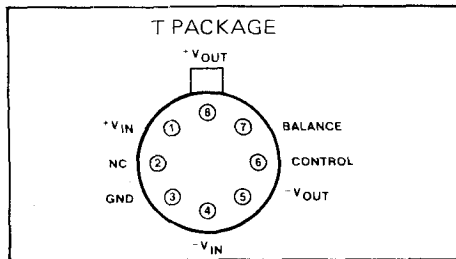
#### VOLTAGE RANGE

| VOLTAGE           | PART NO.  |
|-------------------|-----------|
| $\pm 5$ V         | SE/NE5551 |
| $\pm 6$ V         | SE/NE5552 |
| $\pm 12$ V        | SE/NE5553 |
| $\pm 15$ V        | SE/NE5554 |
| $\pm 5$ , $-12$ V | SE/NE5555 |

#### MAXIMUM RATINGS

| PARAMETER                            | RATING          | UNIT         |
|--------------------------------------|-----------------|--------------|
| $V_{IN}$ Input Voltage               | $\pm 32$        | V            |
| $T_{SG}$ Storage Temperature         | $-65$ to $+150$ | $^{\circ}$ C |
| $T_J$ Operating Junction Temperature |                 |              |
| NE5551/2/3/4/5                       | 0 to $+125$     | $^{\circ}$ C |
| SE5551/2/3/4/5                       | $-55$ to $+150$ | $^{\circ}$ C |
| Lead Temperature 10sec               | 300             | $^{\circ}$ C |

#### CONNECTION DIAGRAM



#### REFERENCE TABLE

| TYPE NO. | STOCK NO. | OUTLINE<br>DRWG. NO. |
|----------|-----------|----------------------|
| NE5551N  | 56111E    | 1                    |
| NE5551T  | 56112C    | 7                    |
| NE5552N  | 56113A    | 1                    |
| NE5552T  | 56114X    | 7                    |
| NE5553N  | 56115H    | 1                    |
| NE5553T  | 56116F    | 7                    |
| NE5554N  | 56117D    | 1                    |
| NE5554T  | 56118B    | 7                    |
| NE5555N  | 56119X    | 1                    |
| NE5555T  | 56120C    | 7                    |
| SE5551N  | 56121A    | 1                    |
| SE5551T  | 56122X    | 7                    |
| SE5552N  | 56123H    | 1                    |
| SE5552T  | 56124F    | 7                    |
| SE5553N  | 56125D    | 1                    |
| SE5553T  | 56126B    | 7                    |
| SE5554N  | 56127X    | 1                    |
| SE5554T  | 56128R    | 7                    |
| SE5555N  | 56129G    | 1                    |
| SE5555T  | 56130X    | 7                    |

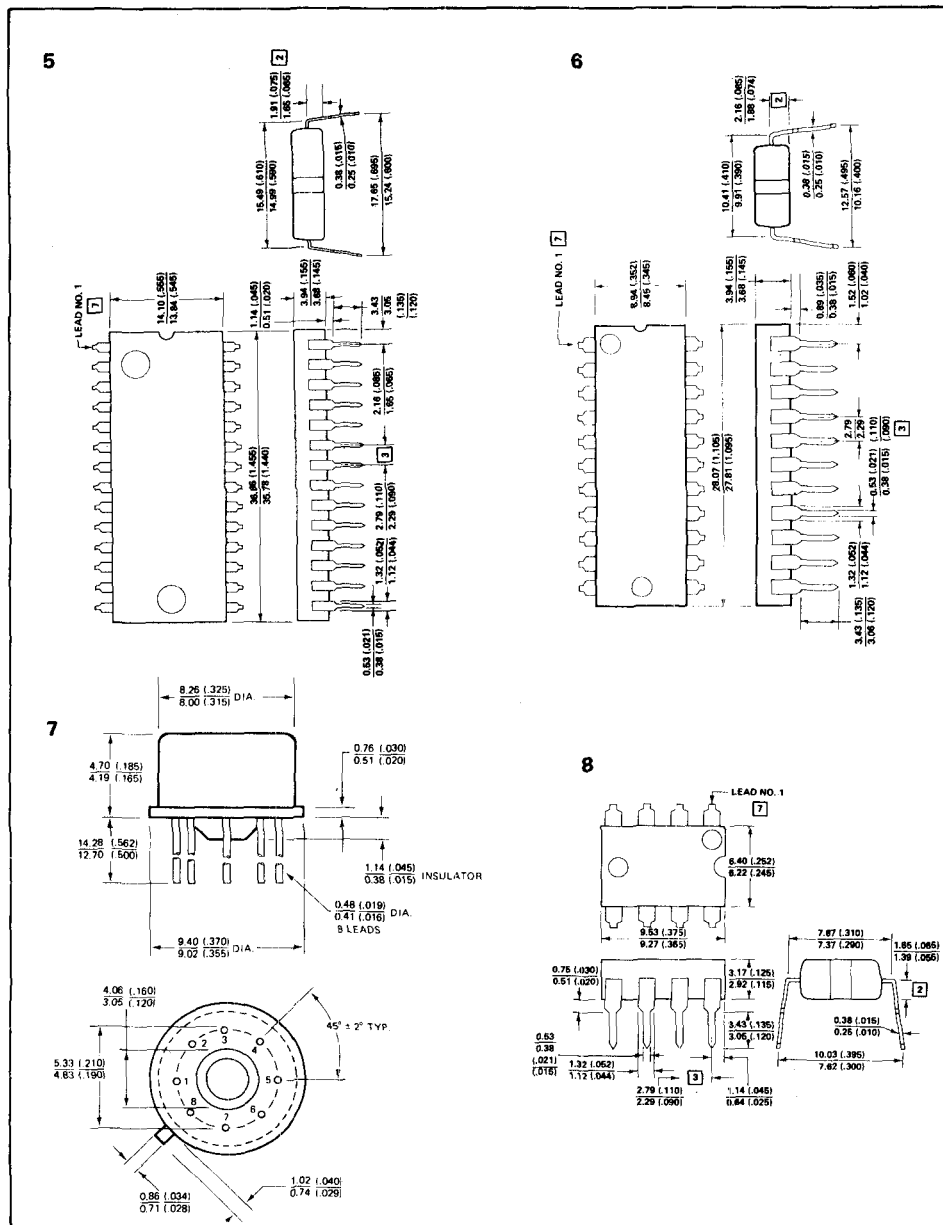
PLEASE QUOTE STOCK NO.  
AND MANUFACTURERS PART NO. WHEN ORDERING

**ITT GEMINI**



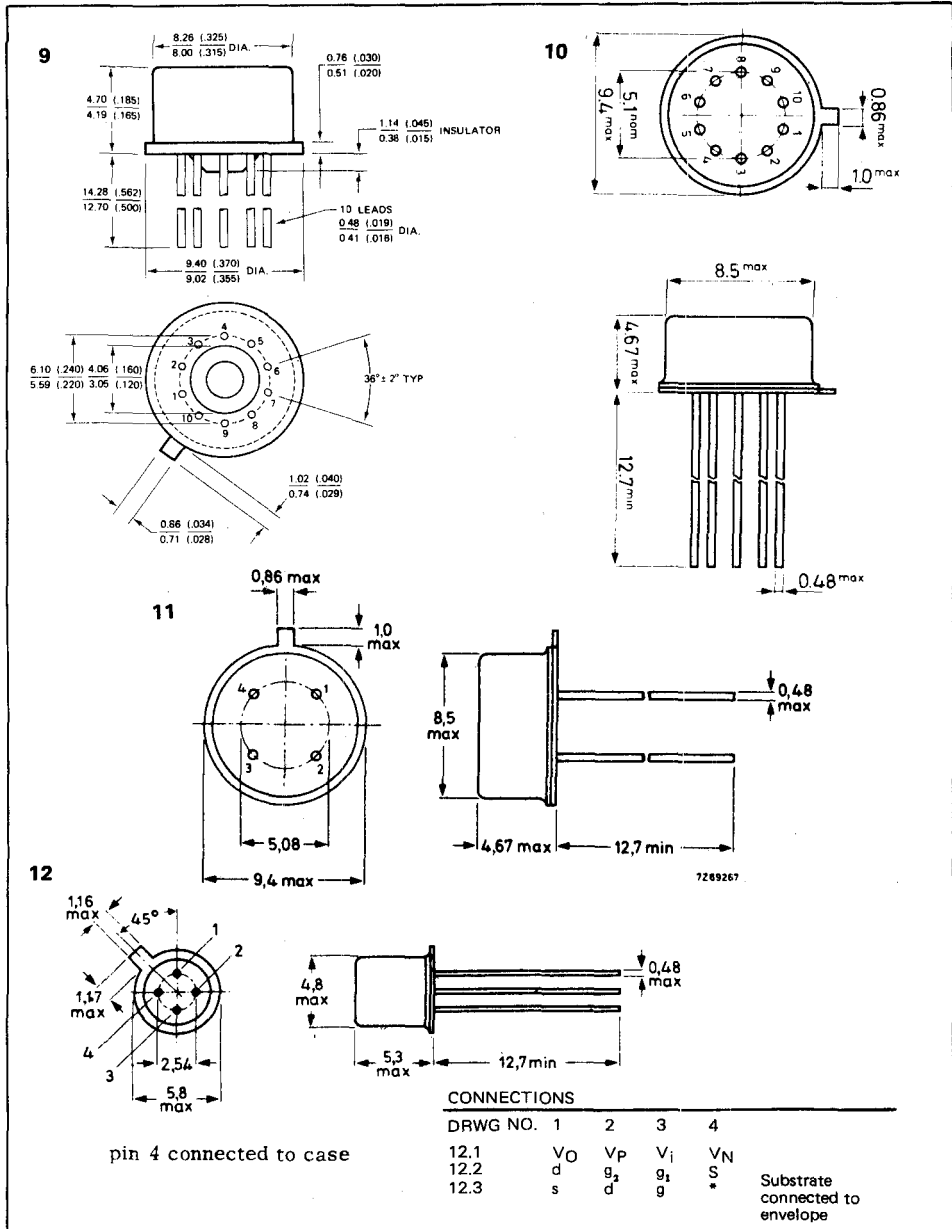
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## Outline Drawings



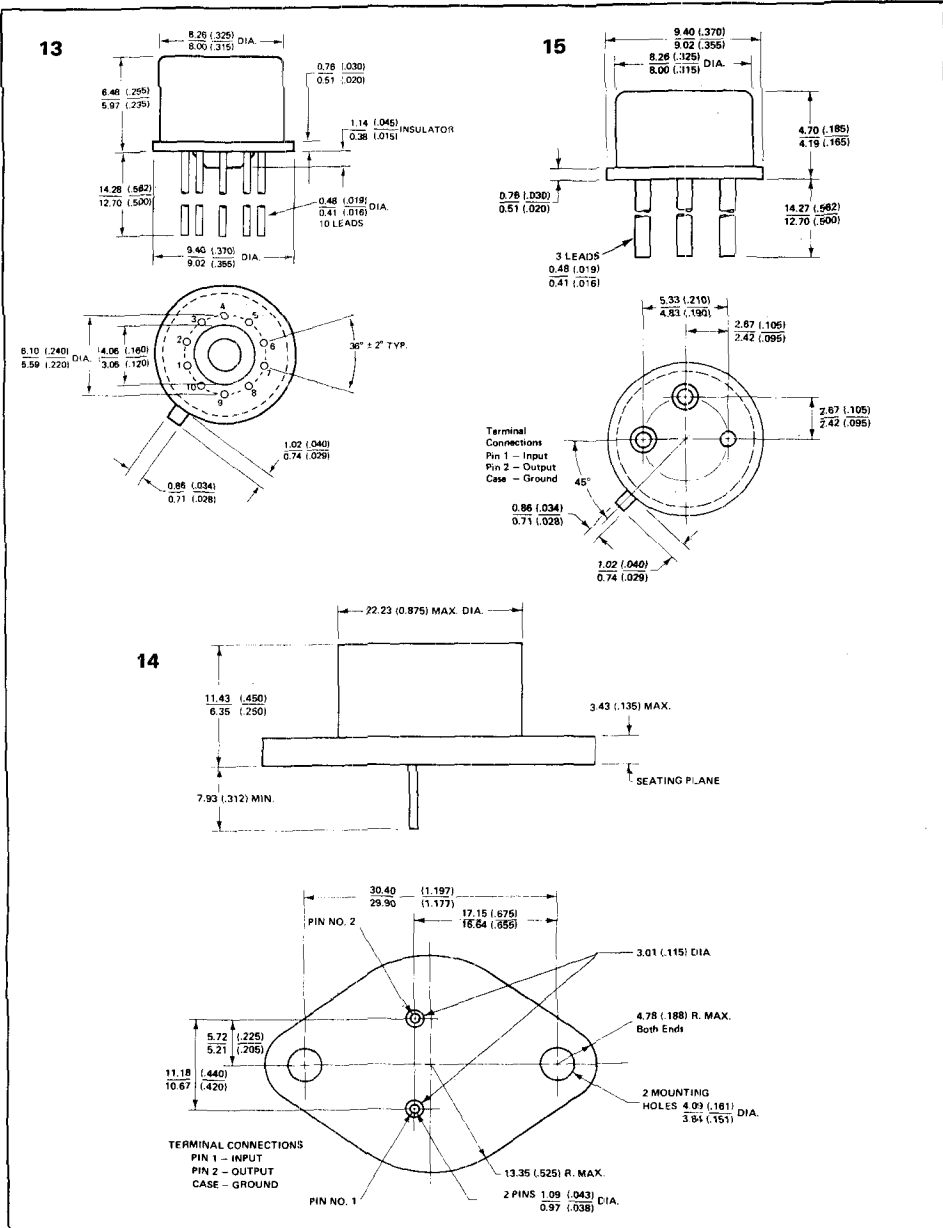
**GEMINI**

FOR CURRENT PRICES PHONE  
HARLOW (0279) 29644

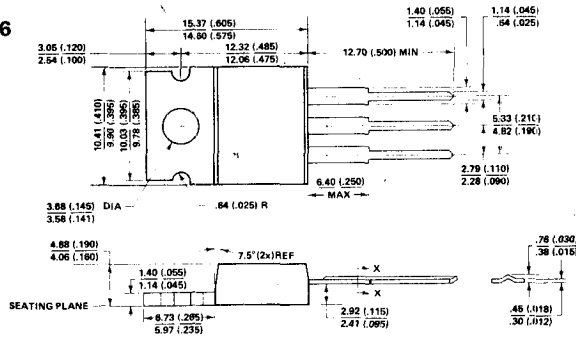


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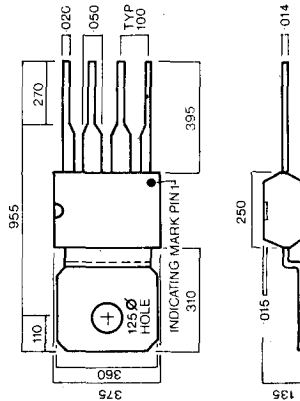
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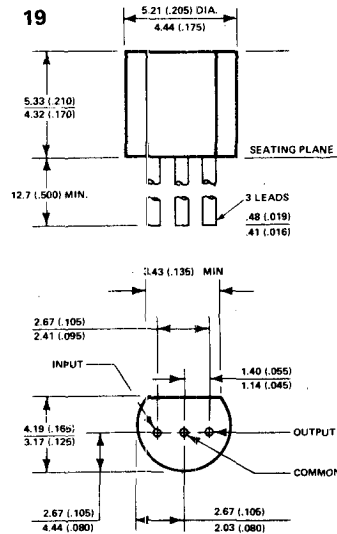
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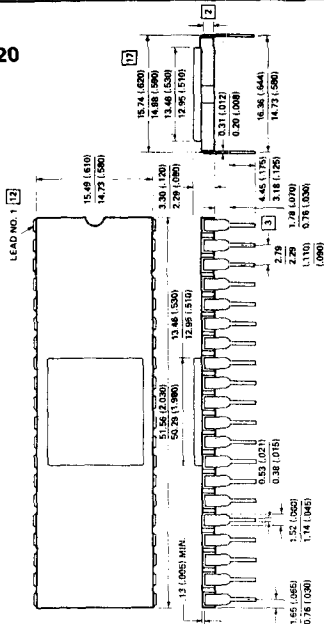
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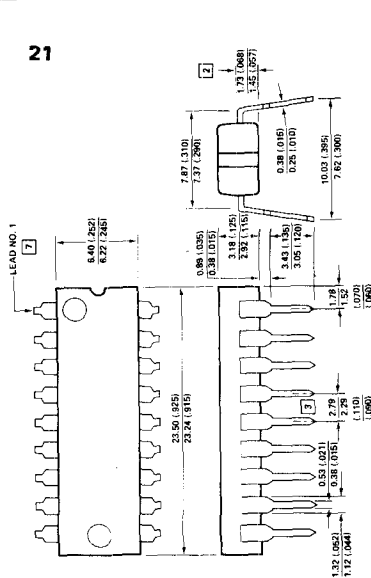
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**TTT GEMINI**

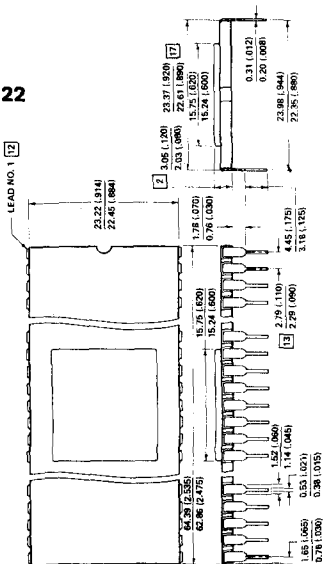
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