

Signetics

Interface – Video Amplifier

μ A733 – Differential Video Amp

GENERAL DESCRIPTION

The 733 is a monolithic differential input, differential output, wideband video amplifier. It offers fixed gains of 10, 100 or 400 without external components, and adjustable gains from 10 to 400 by the use of an external resistor. No external frequency compensation components are required for any gain option. Gain stability, wide band-width and low phase distortion are obtained through use of the classic series-shunt feedback from the emitter follower outputs to the inputs of the second stage. The emitter follower outputs provide low output impedance, and enables the device to drive capacitive loads. The 733 is intended for use as a high performance video and pulse amplifier in communications, magnetic memories, display and video recorder systems.

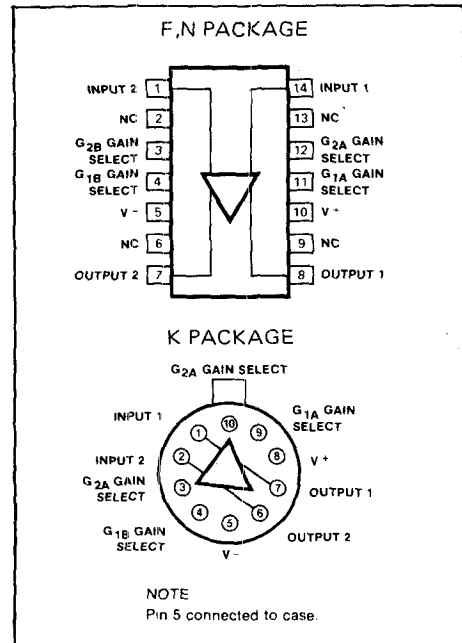
FEATURES

- 120MHz bandwidth
- 250k Ω input resistance
- Selectable gains of 10, 100 and 400
- No frequency compensation required
- Mil std 883A,B,C available

MAXIMUM RATINGS

PARAMETER	RATING	UNIT
Differential input Voltage	± 5	V
Common mode input Voltage	± 6	V
V _{CC}	± 8	V
Output current	10	mA
Junction temperature	+150	°C
Storage temperature range	-65 to +150	°C
Operation temperature range		
μ A733C	0 to +75	°C
μ A733	-55 to +125	°C
P _D Power dissipation		
K package	500	mW
N, F package	670	mW

CONNECTION DIAGRAM



REFERENCE TABLE

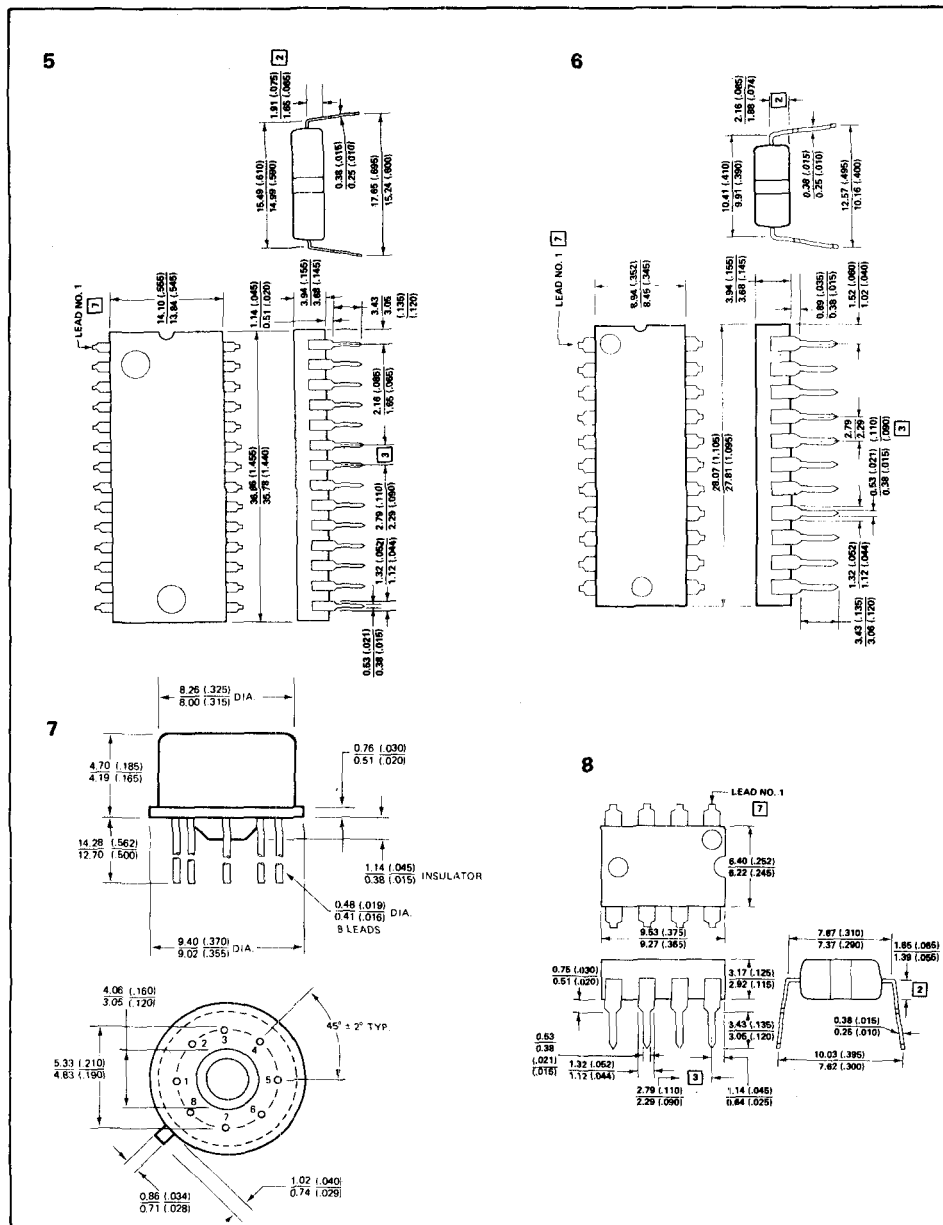
TYPE NO.	STOCK NO.	OUTLINE DRWG. NO.
μ A733F	55852B	1
μ A733K	55853X	9
μ A733CF	55854R	1
μ A733CK	55855G	9
μ A733CN	55856E	1

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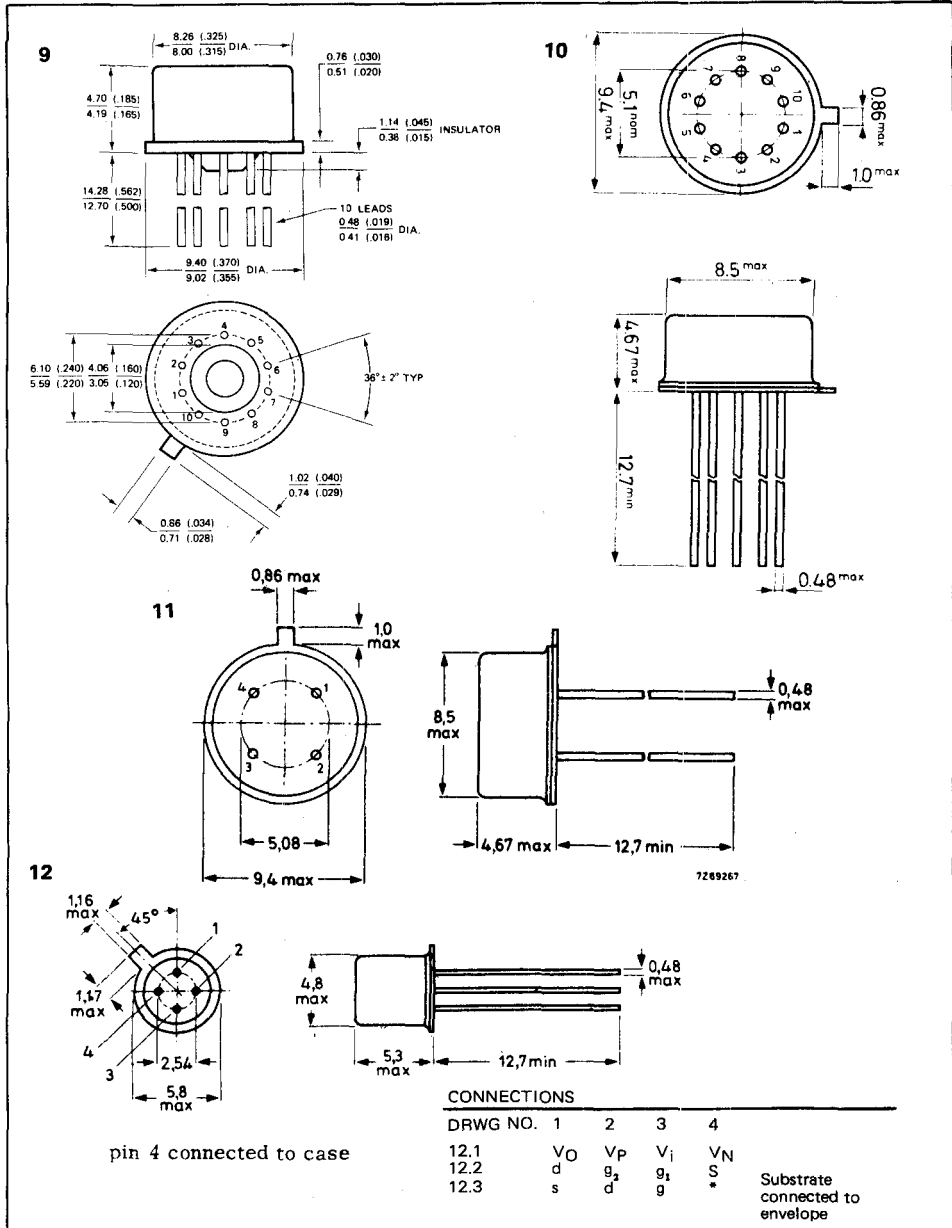
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Outline Drawings



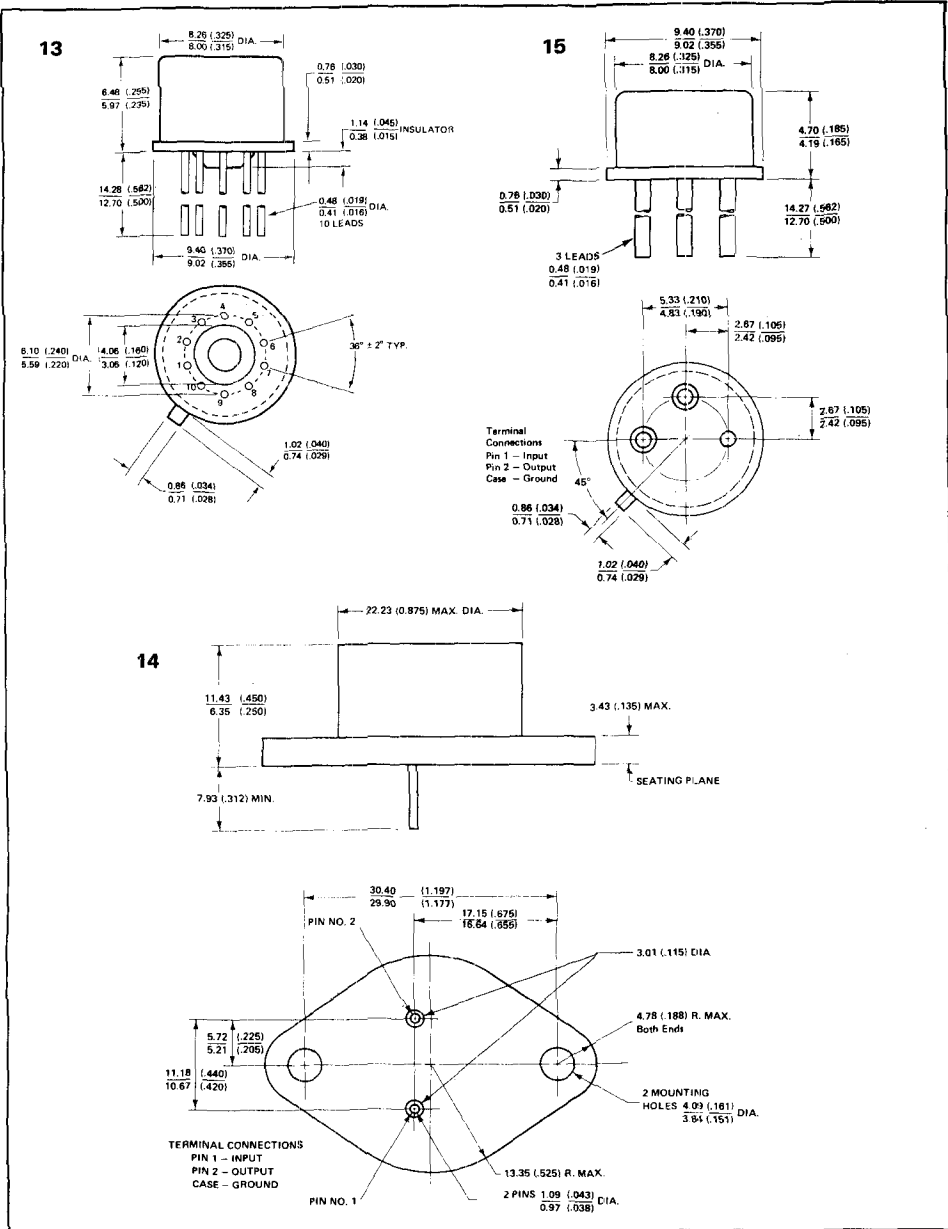
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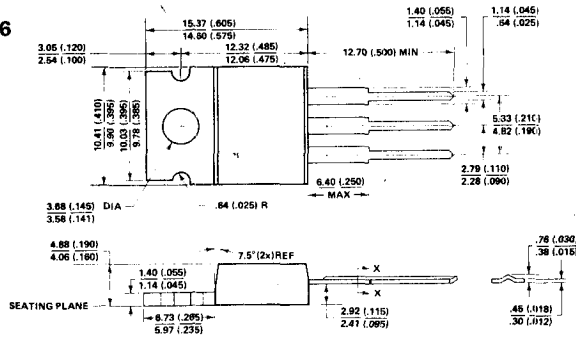


PLEASE QUOTE STOCK NO.
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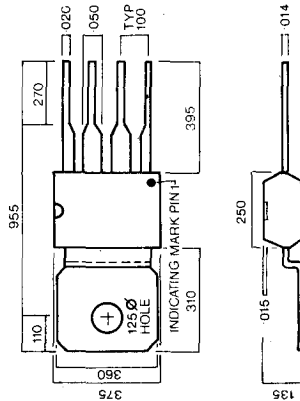
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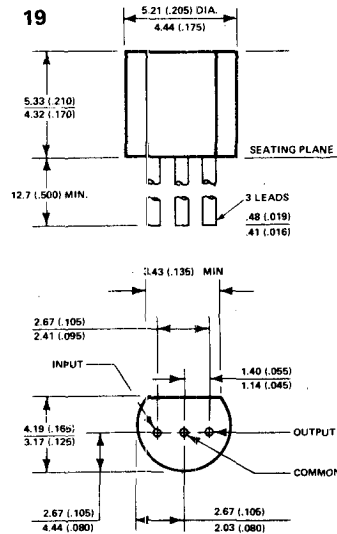
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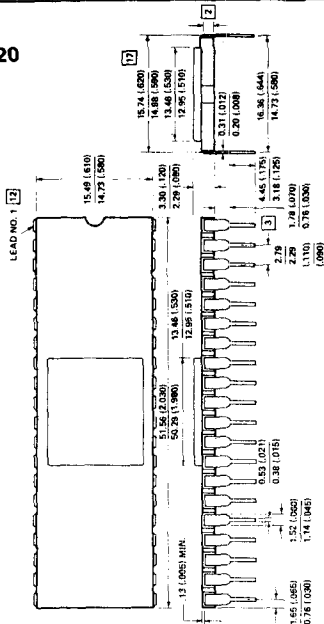
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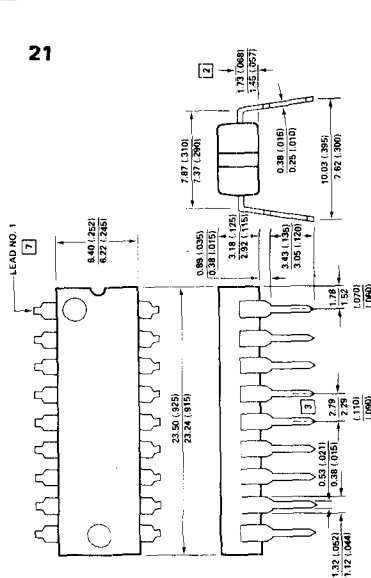
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Outline Drawings

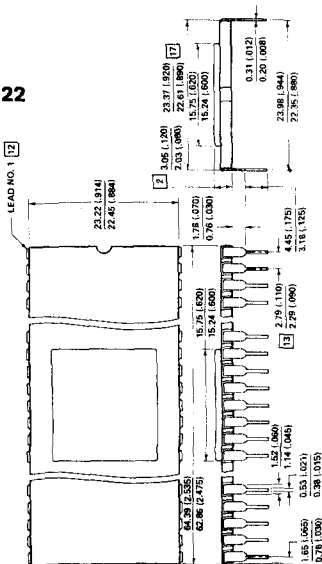
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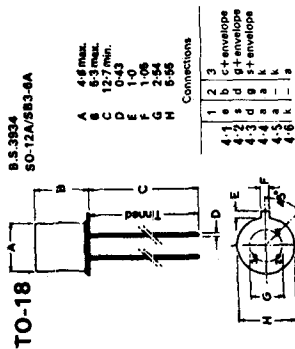
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