

Signetics

Integrated Circuits – Operational Amplifier

MC1458 Series General Purpose Operational Amplifier

GENERAL DESCRIPTION

The MC1558/MC1458 consist of a pair of 741 operational amplifiers on a single chip.

FEATURES

- Internal frequency compensation
- Short circuit protection
- Excellent temperature stability
- High input voltage range
- No latch-up
- 1558/1458 are 2 "op amps" in space of one 741 package

MAXIMUM RATINGS

PARAMETER	RATING	UNIT
Supply voltage		
MC1458	± 18	V
MC1558	± 22	V
Internal power dissipation, N-14	600	mW
N package	500	mW
T package ¹	800	mW
F package	1000	mW
Differential input voltage	± 30	V
Input voltage ²	± 15	V
Output short-circuit duration	Continuous	
Operating temperature range		
MC1458	0 to +70	°C
MC1558	-55 to +125	°C
Storage temperature range	-65 to +150	°C
Lead temperature (soldering 60sec)	300	°C

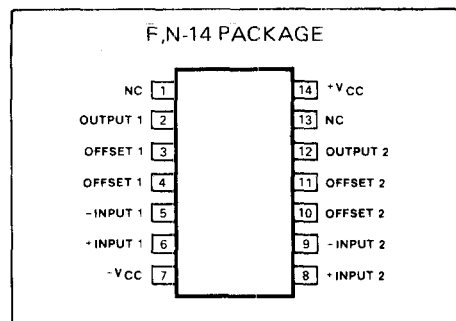
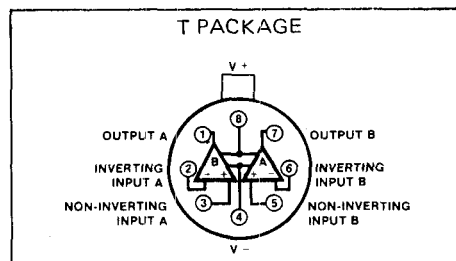
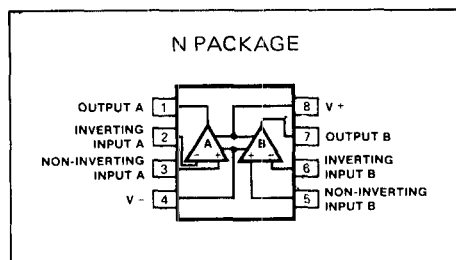
NOTES

1. Ratings based on thermal resistances, junction to ambient, of 208°C/W, 240°C/W, 150°C/W, 110°C/W for N-14, N, T and F packages respectively, and a maximum junction temperature of 150°C.
2. For supply voltages less than $\pm 15V$, the absolute maximum input voltage is equal to the supply voltage.

REFERENCE TABLE

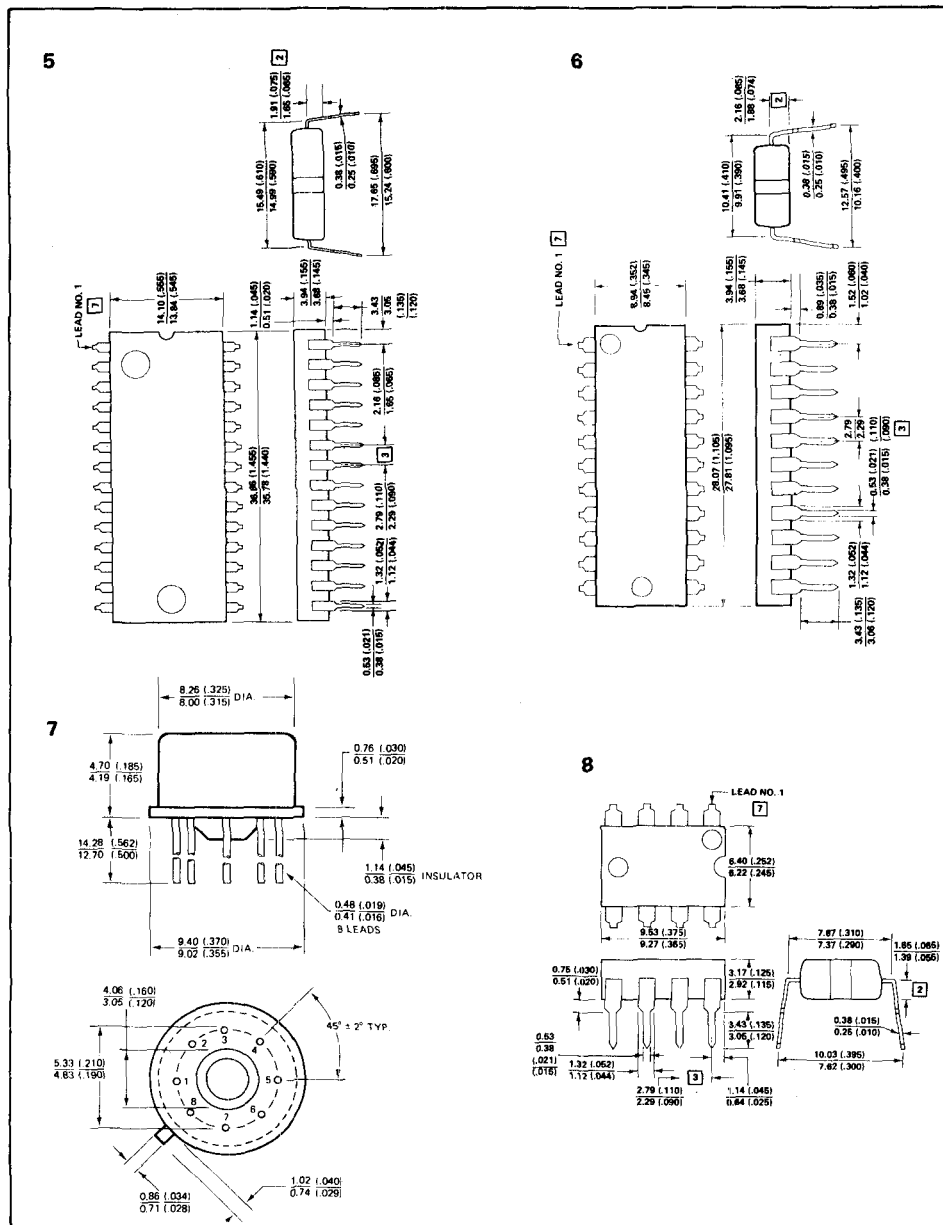
TYPE NO.	STOCK NO.	OUTLINE DRWG. NO.
MC1458N	55924B	8
MC1458N-14	55925X	1
MC1458T	55926R	7
MC1558T	55927G	7
MC1558F	55928E	1

CONNECTION DIAGRAM



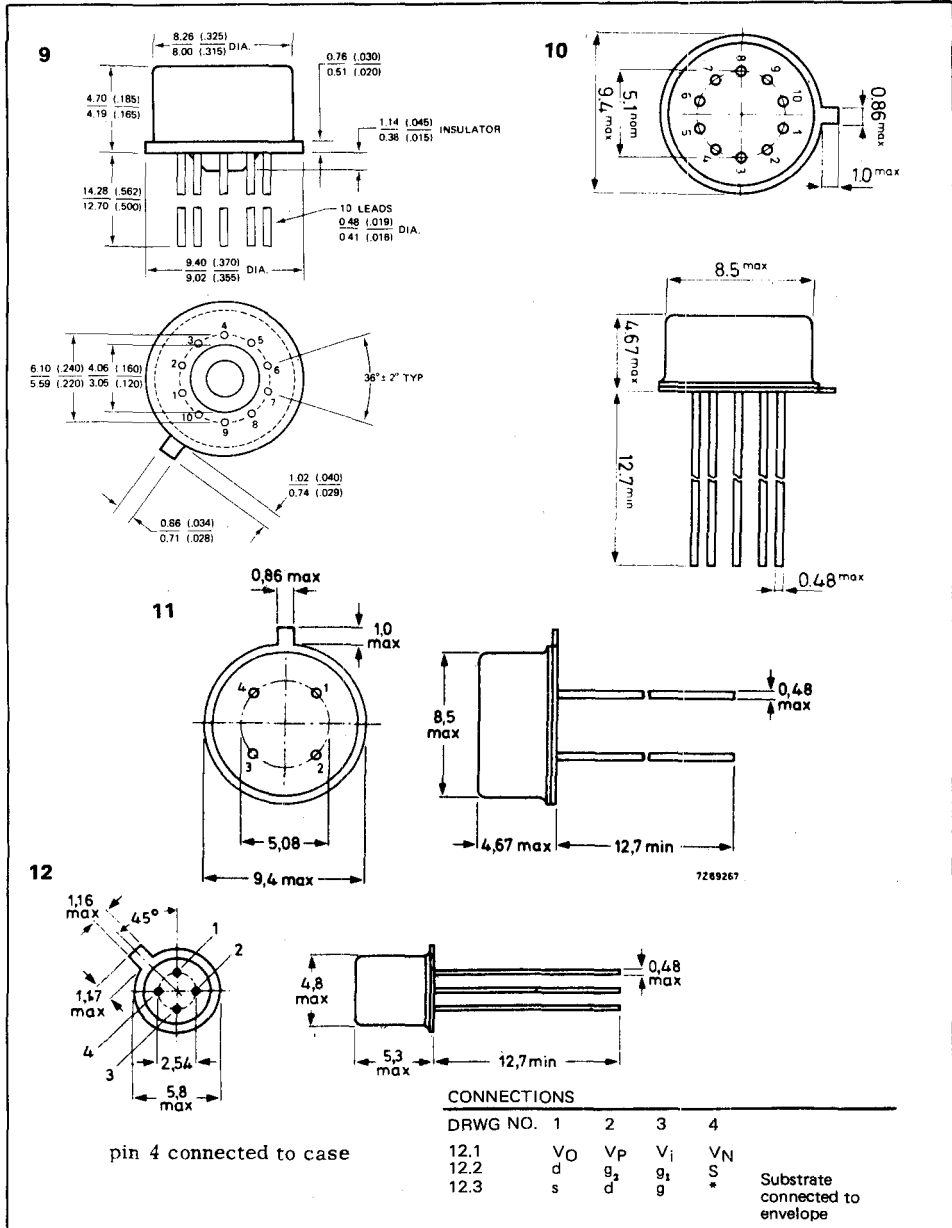
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Outline Drawings



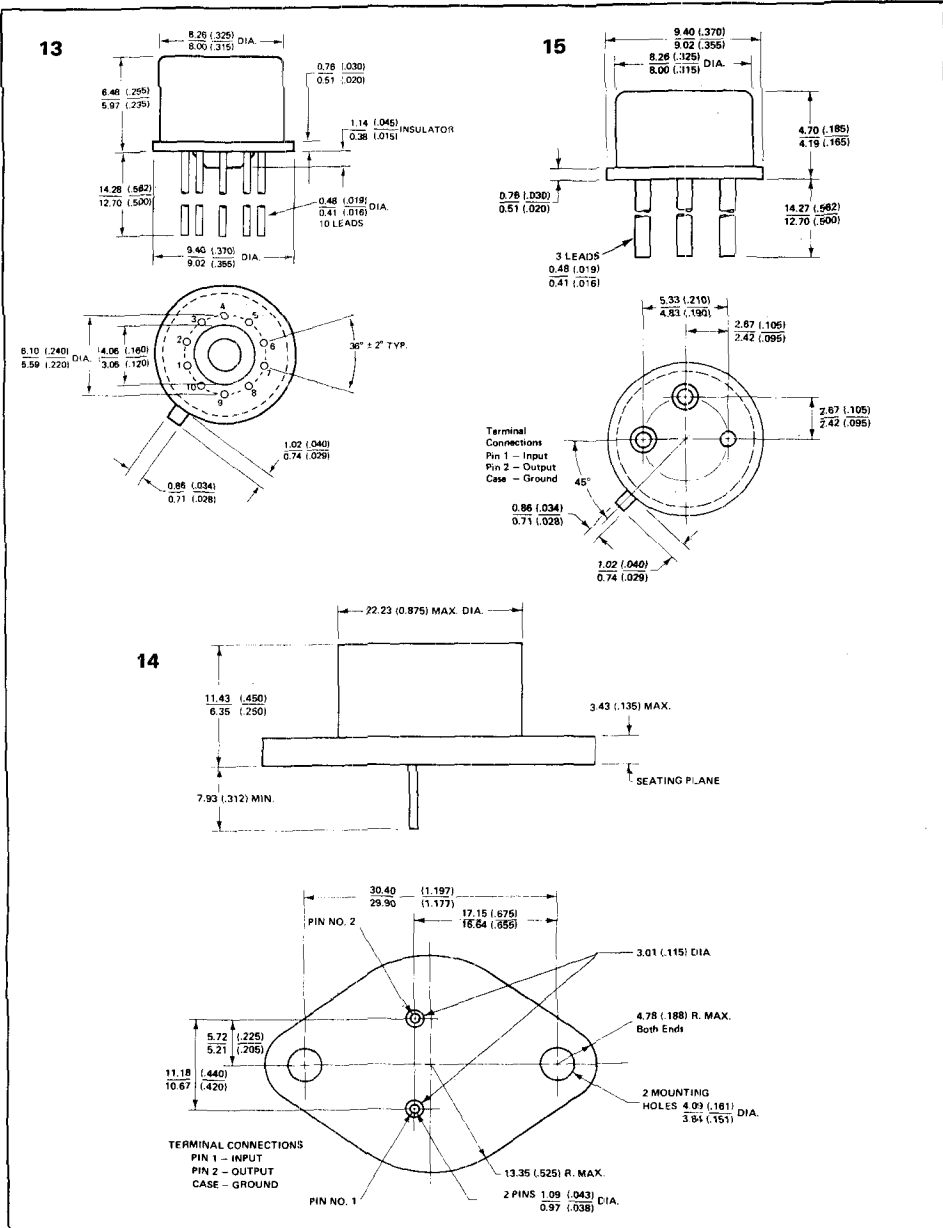
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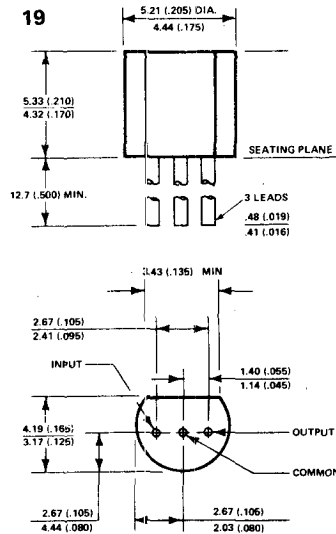
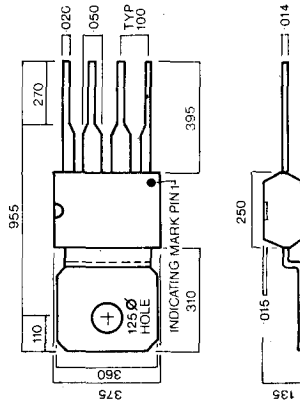
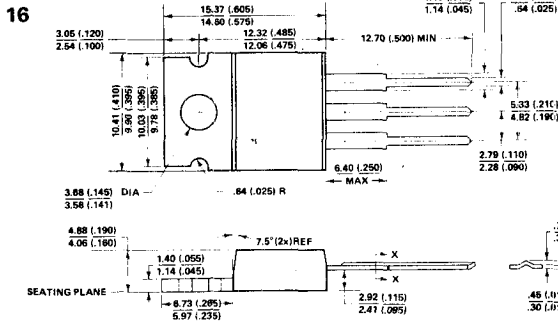
FOR CURRENT PRICES PHONE
HARLOW (0279) 29644



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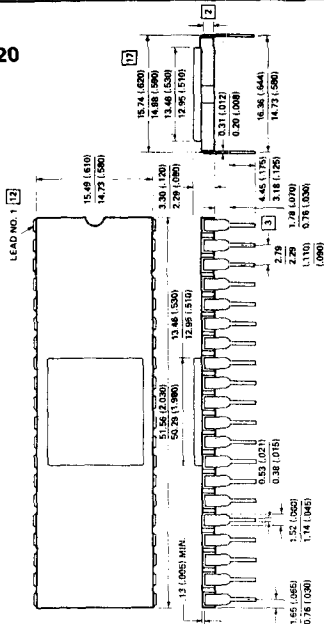
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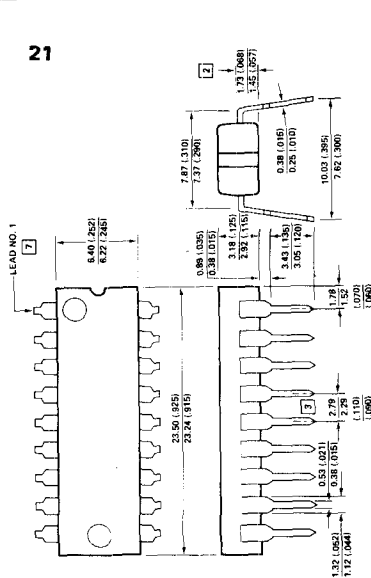
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Outline Drawings

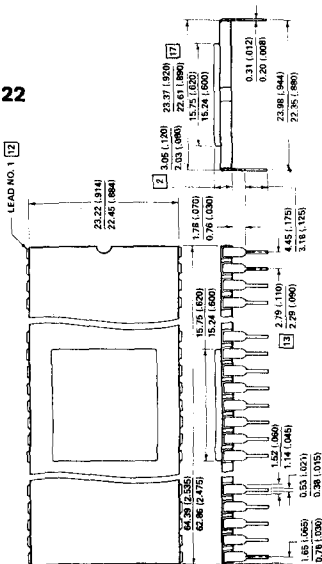
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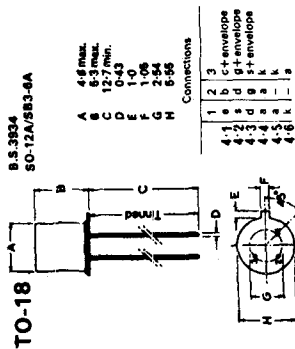
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