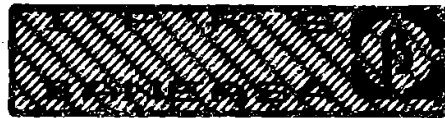


**LINEAR
INTEGRATED
CIRCUITS
=RADIO-TV=**



**βM 381A
βM 381
LOW NOISE DUAL PREAMPLIFIERS**

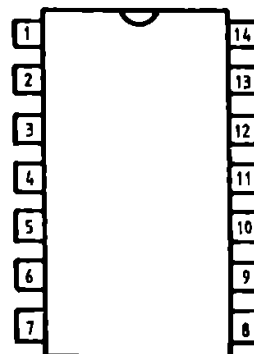
The integrated circuits βM 381A, βM 381 are low noise dual preamplifiers. Each amplifier is completely independent, with individual internal power supply decoupler-regulator, providing 120 dB supply rejection ratio and 60 dB channel separation.

Either differential input or single ended input configurations can be selected. Each amplifier is internally compensated with the provision of additional external compensation for narrow band applications.

Features

- Operating temperature	-25 ... +70 °C
- Storage temperature	-25 ... +125 °C
- Supply voltage	max. 40 V
- Supply current (V+ = 9 ... 40 V)	typ. 10 mA
- Voltage gain (differential input)	typ. 160000 -
- Voltage gain (single ended)	typ. 320000 -
- Input current (negative input)	typ. 0.5 uA
- Output source current	typ. 8 mA
- Output sink current	typ. 2 mA
- Unity gain bandwidth	typ. 15 MHz
- Total equivalent input noise	βM 381A ... max. 0.7 uVrms
	βM 381 ... max. 1.0 uVrms

- | 1. Input 1+
- | 2. Input 1-
- | 3. Input single ended 1-
- | 4. GND
- | 5. Compensation A1
- | 6. Compensation B1
- | 7. Output 1
- | 8. Output 2
- | 9. V+
- | 10. Compensation B2
- | 11. Compensation A2
- | 12. Input single ended 2-
- | 13. Input 2-
- | 14. Input 2+



PACKAGE TO-116 / TOP VIEW