



LS288

LINEAR INTEGRATED CIRCUIT

PROGRAMMABLE TELEPHONE SPEECH CIRCUIT

The LS288 is a monolithic integrated circuit in 16 lead dual in-line plastic package. Designed as a replacement for the hybrid circuit in telephone sets it performs all the functions previously carried out by this circuit.

With the LS288 it is possible to select the operating mode (fixed or variable gain). The device works with both piezoceramic and dynamic transducers and therefore its gain, both in sending and receiving paths, can be preset by means of two external resistors. This feature can also be obtained in AGC operating mode, when the device automatically adjusts the Rx/Tx gains to compensate for the line attenuation by sensing the line current.

The LS288 can supply the decoupling FET when working with an electret microphone. Output impedance can be matched to the line independently of transducer impedance.

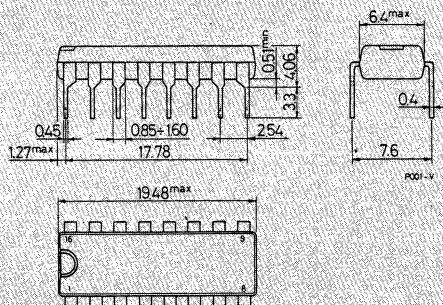
ABSOLUTE MAXIMUM RATINGS

V_L	Line voltage (3 ms pulse duration)	22	V
I_L	Forward line current	150	mA
I_L	Reverse line current	-150	mA
P_{tot}	Total power dissipation at $T_{amb} = 70^\circ\text{C}$	1	W
T_{op}	Operating temperature	-45 to 70	$^\circ\text{C}$
T_{stg}, T_j	Storage and junction temperature	-65 to 150	$^\circ\text{C}$

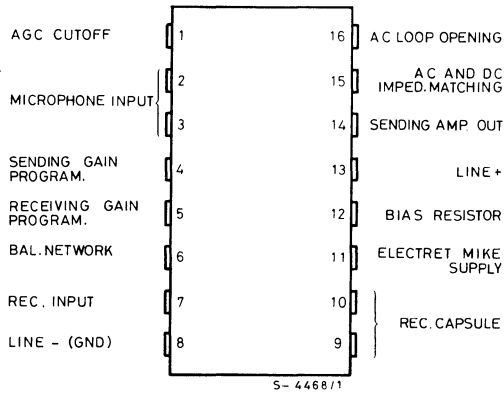
ORDERING NUMBER : LS288 B

MECHANICAL DATA

Dimensions in mm



CONNECTION DIAGRAM (top view)



BLOCK DIAGRAM

