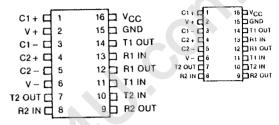


DS232 DS1228S-16-Pin SOIC

FEATURES

- Operates from a single 5V power supply
- · 2 drivers and 2 receivers
- Meets all EIA RS-232-C specifications
- On-board voltage doubler
- On-board voltage inverter
- ± 30 V input levels
- ±9 V output levels with +5 V supply
- Low power CMOS
- Pin compatible with the MAX 232
- 40 °C to + 85 °C temperature range available
- Optional 16-pin SOIC surface mount package

PIN CONNECTIONS



PIN NAMES

- Capacitor 1 Connections C1 + , C1- Capacitor 2 Connections C2+,C2+ 10 Volts V+, V- Transmitter In T1 IN, T2 IN T1 OUT, T2 OUT - Transmitter Out - Receiver in **R1 IN, R2 IN** R1 OUT, R2 OUT - Receiver Out - +5 Volts Vcc.

- Ground

DESCRIPTION

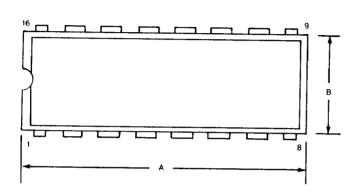
The DS232 is a dual RS-232-C Receiver/Transmitter that meets all EIA specifications while operating from a single +5 volt supply. The DS232 has two internal charge pumps. One of the charge pumps is used to generate + 10 volts. The other is used to generate - 10 volts. The DS232 also contains four level translators. Two of the level translators are RS-232 transmitters which convert TTL/CMOS inputs into ±9V RS-232 outputs. The other two level translators are RS-232 receivers which convert RS-232 inputs to 5V TTL/CMOS outputs. These receivers are capable of operating with up to ± 30V inputs. The DS232 is suitable for all RS-232-C communications and is particularly valuable where higher voltage power supplies for RS-232 drivers are not available. The power supply section of the DS232 supplies ± 10 volts from the VCC input.

GND

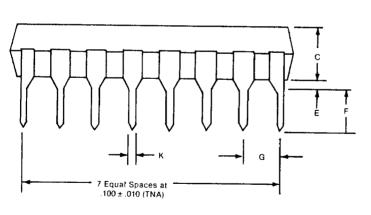
See the data sheet for the DS1229 for electrical specifications and operation.

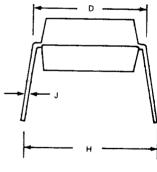
11

Dual RS-232 Transmitter/Receiver D\$1228 16-Pin DIP

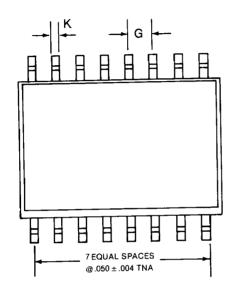


DIM.	INCHES	
	MIN.	MAX.
Α	.740	.780
В	.240	.260
С	.120	.140
D	.290	.310
E	.020	.030
F	.110	.130
G	.090	.110
Н	.320	.370
J	.008	.012
K	.015	.021





Dual RS-232 Transmitter/Receiver DS1228S 16-Pin SOIC



DIM.	INCHES	
	MIN.	MAX.
Α	.403	.411
В	.290	.296
С	.089	.095
D	.325	.330
E	.008	.012
F	.097	.105
G	.046	.054
н	.402	.410
J	.006	.011
К	.013	.019

