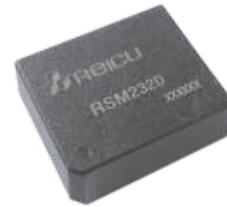


**Features :**

- Double isolation RS232
- Operating voltage: 3.3V/5.0V
- I/O-Isolation 2500 VDC
- Baud rate : 115.2Kbps
- Instantaneous bus over voltage protection
- Compatible with EIA/TIA-232-F standard
- No External Components Required
- Low EMI
- High electromagnetic anti-interference
- Operating temperature : -40 ~ +85



**DESCRIPTION**

RSM232D is the double transceiver which integrates with the power isolation and electrical isolation. It realizes with isolated RS-232 separation circuit, the isolation voltage is up to 2500VDC. It improves bus reliability and common mode noise immunity. It is built-in TVS tube, which increases the chip prohibit the bus from overvoltage capability, The minimum transmission rate of data transmission is 12. Kbps. The product design meets the standard of EIA/TIA-232-F, and with ESD (in HBM mode) up to +15KV the protection ability. It is small and high integration, no need peripheral circuit, easy to use.

**Model Selection Guide**

Order Code	Input Voltage		Baud rate(Kbps)	Speciality	Package
	Vin(VDC)	Range(VDC)			
RSM232D	5	3.0-5.5	1024	Double RS232	DIP12

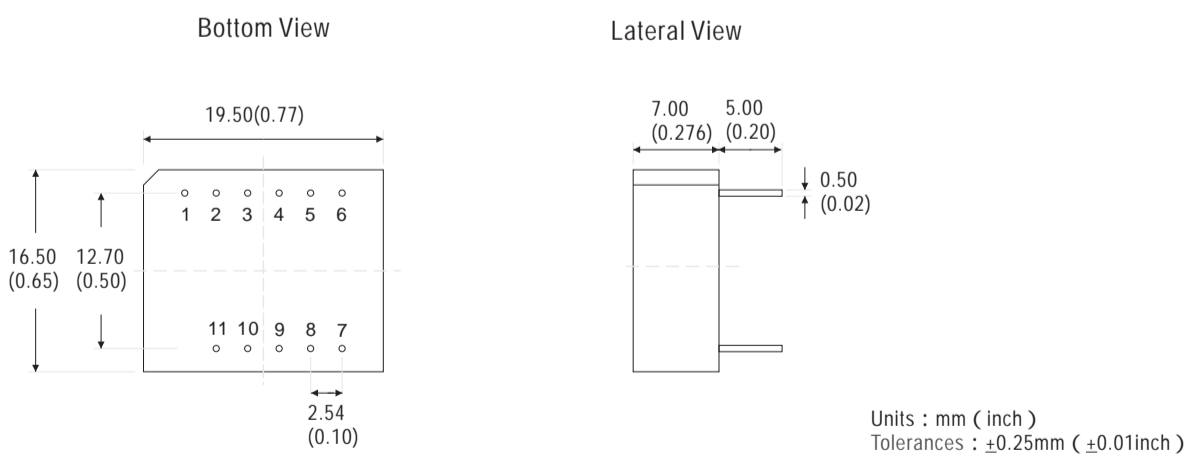
**Parameter**

Item	Specification	Min	Typ	Max	Units
Input Voltage		3.0	5.0	5.5	VDC
Operating Temperature		-40		+85	
Storage Temperature		-55		+125	
Isolation voltage			2500		VDC
Isolation capacitance			40		pF
Humidity	No frosting	10		95	%
Quiescent Current				33	mA
Propagation delay time		350		400	μS
TXD/RXD pin current				3	mA
Receiver input voltage		-15		+15	V
Transceiver output voltage range		-5		+5	V
Transceiver short-circuit current				70	mA
ESD Protection	Contact model			±4000	V
	Machine model			±200	V

**Application**

Application Area	Typical Circuit
<ul style="list-style-type: none"> <li>→ Industrial automation system</li> <li>→ Automatic control on electrical power system</li> <li>→ Cartronics</li> <li>→ Communication</li> <li>→ Access control system &amp; Monitor</li> <li>→ PLC controller</li> </ul>	

**Mechanical Dimension**



**Pin Connections**

Pin	Function	Description
1	+Vin	positive pole
2	GND	negative pole
3	Tin1	(1) TTL/CMOS transmitter input
4	Rout1	(1) TTL/CMOS receiver output
5	Tin2	(2) TTL/CMOS transmitter input
6	Rout2	(2) TTL/CMOS receiver output
7	Rin2	(2) Rs232 receiver input
8	Tout2	(2) Rs232 transmitter output
9	Rin1	(1) Rs232 receiver input
10	Tout1	(1)RS232 transmitter output
11	R-GND	Rs232 power isolated ground