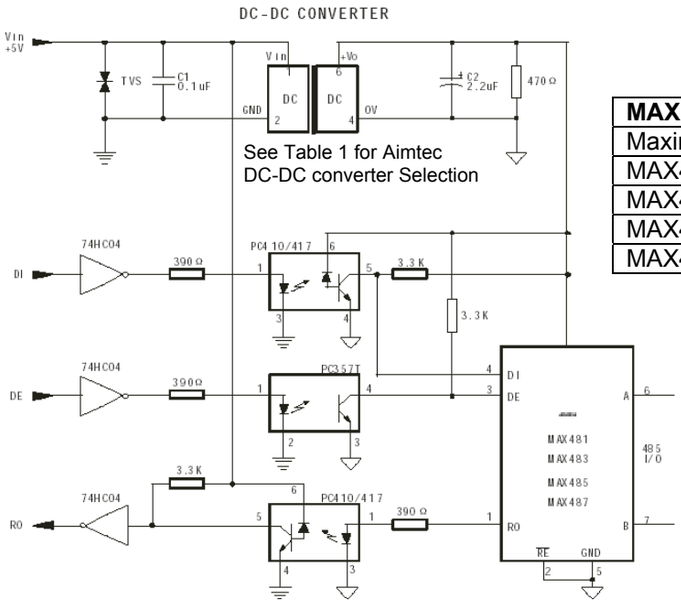
Typical Application of Isolated Output DC/DC Converters for RS-485 Communications



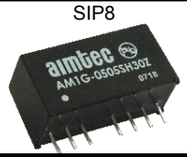
MAXIM to Analog Devices Inc. Equivalent Models	
Maxim	Analog Devices Inc
MAX481	ADM4852
MAX483	ADM483
MAX485	ADM485
MAX487	ADM4851

Utilizing Isolated DC-DC converters will improve EMI performance, prevent ground loops, and provide immunity from external noise.

Table 1

System Input Voltage	Input-Output Isolation	Standard Power, 1 Watt				Low Power, 0.25 Watt	
		Unregulated Output		Regulated Output		Unregulated Output	
		Model	Case	Model	Case	Model	Case
5VDC	1000 VDC	**AM1S-0505SZ**	SIP4				
		AM1D-0505SZ	SIP7	**AM1DR-0505SZ**	SIP7		
		AM1P-0505SZ	DIP8	**AM1G-0505SZ**	SIP8	**AM1/4L-0505S-NZ**	SMD
		AM1L-0505S-NZ	SMD			**AM1/4S-0505SZ**	SIP4
	3000 VDC	**AM1S-0505SH30Z**	SIP4				
		AM1D-0505SH30Z	SIP7	**AM1DR-0505SH30Z**	SIP7		
		AM1P-0505SH30Z	DIP8	**AM1G-0505SH30Z**	SIP8	**AM1/4L-0505SH30-NZ**	SMD
		AM1L-0505SH30-NZ	SMD			**AM1/4S-0505SH30Z**	SIP4
	6000 VDC	**AM1D-0505SH60Z**	SIP7				
		AM1N-0505SH60-NZ	DIP24				
12VDC	1000 VDC	**AM1S-1205SZ**	SIP4				
		AM1D-1205SZ	SIP7	**AM1DR-1205SZ**	SIP7		
		AM1P-1205SZ	DIP8	**AM1G-1205SZ**	SIP8	**AM1/4L-1205S-NZ**	SMD
		AM1L-1205S-NZ	SMD			**AM1/4S-1205SZ**	SIP4
	3000 VDC	**AM1S-1205SH30Z**	SIP4				
		AM1D-1205SH30Z	SIP7	**AM1DR-1205SH30Z**	SIP7		
		AM1P-1205SH30Z	DIP8	**AM1G-1205SH30Z**	SIP8	**AM1/4L-1205SH30-NZ**	SMD
		AM1L-1205SH30-NZ	SMD			**AM1/4S-1205SH30Z**	SIP4
	6000 VDC	**AM1D-1205SH60Z**	SIP7				
		AM1N-1205SH60-NZ	DIP24				
24VDC	1000 VDC	**AM1S-2405SZ**	SIP4				
		AM1D-2405SZ	SIP7	**AM1DR-2405SZ**	SIP7		
		AM1P-2405SZ	DIP8	**AM1G-2405SZ**	SIP8	**AM1/4L-2405S-NZ**	SMD
		AM1L-2405S-NZ	SMD			**AM1/4S-2405SZ**	SIP4
	3000 VDC	**AM1S-2405SH30Z**	SIP4				
		AM1D-2405SH30Z	SIP7	**AM1DR-2405SH30Z**	SIP7	**AM1/4L-2405SH30-NZ**	SMD
		AM1P-2405SH30Z	DIP8	**AM1G-2405SH30Z**	SIP8	**AM1/4S-2405SH30Z**	SIP4
	6000 VDC	**AM1D-2405SH60Z**	SIP7				

Case Types

SMD	SMD	SIP4	DIP8	SIP8	SIP7
					

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