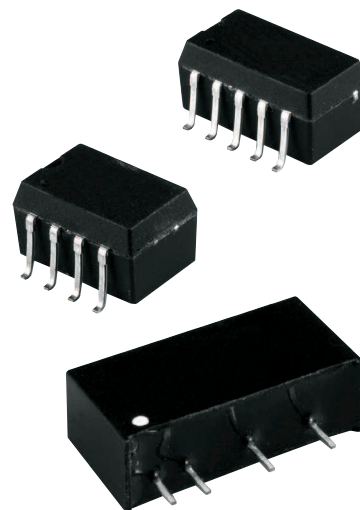


Communication Line – MAA 11 Series

1W SINGLE AND DUAL OUTPUT DC/DC CONVERTER

Features

- Industry standard SIP and SMD package
- Efficiency up to 82%
- 1000VDC isolation
- Low cost
- Unregulated outputs
- Low ripple and noise



Specifications

INPUT

Voltage range	±10%.
Input filter	Capacitive

OUTPUT

Voltage accuracy	±3% max.
Ripple and noise	SIP models: 75mV p-p max, 20MHz BW. SMD models: 120mV p-p max, 20MHz BW.
Temperature coefficient	±0.02%/°C max.
Short circuit protection	Momentary 1 sec max.
Line regulation ¹⁾	±1.2% max.
Load regulation ²⁾	±10% max.

ENVIRONMENTAL

Operating temperature	-40°C to +85°C.
Case temperature	+95°C max.
Cooling	Free-air convection.
Storage temperature	-55°C to +125°C.

GENERAL

Efficiency	See table.
Isolation voltage	1000VDC min.
Isolation resistance	10 ⁹ ohms, min.
Switching frequency	100KHz typ.
Dimensions	SIP models: 19.5 x 6.1 x 10.2 mm. SMD models (single): 12.7 x 8.0 x 6.8mm. SMD models (dual): 15.24 x 8.0 x 6.8mm.
Case material	SIP models: Non-conductive black plastic. SMD models: Epoxy molding compound.
Weight	1.8g.

Notes:

- 1) Line regulation is per 1.0% change in input voltage.
- 2) Load regulation is for load change from 100% to 20%.
- 3) Suffix "S" to the model number with SMD package.

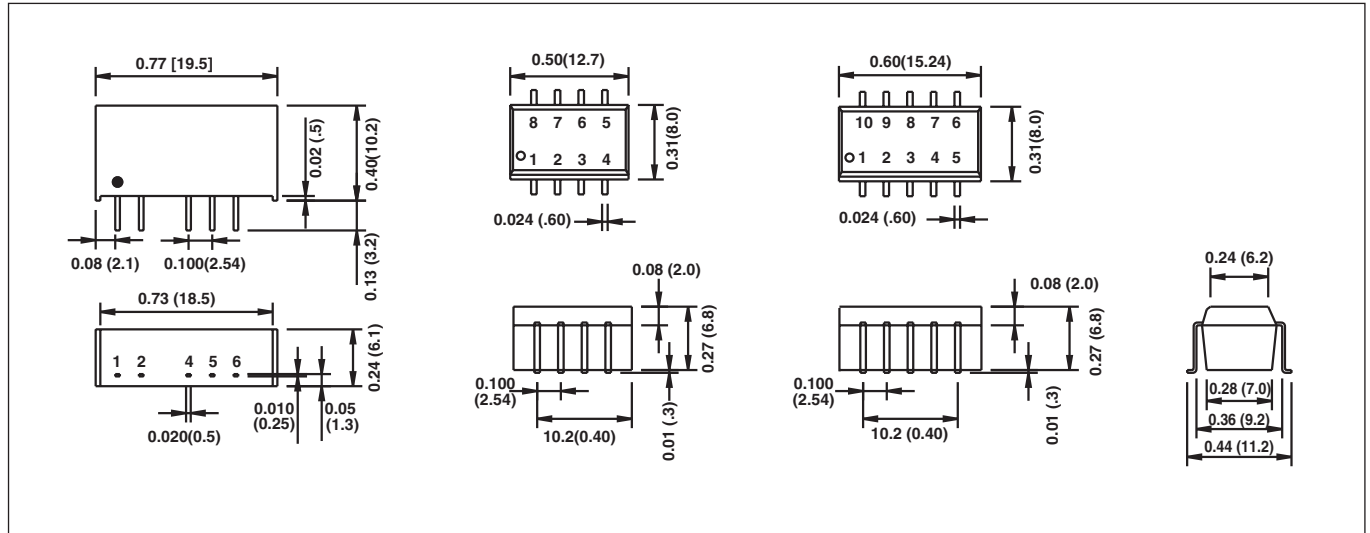
MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		EFFICIENCY
				NO LOAD	FULL LOAD	
MAA 11 016	5VDC	5VDC	200mA	30mA	250mA	80%
MAA 11 031	5VDC	12VDC	84mA	30mA	252mA	80%
MAA 11 037	5VDC	15VDC	67mA	30mA	248mA	81%
MAA 11 246	5VDC	±12VDC	42mA	30mA	255mA	79%
MAA 11 255	5VDC	±15VDC	33mA	30mA	251mA	79%
MAA 11 202	5VDC	±5VDC	100mA	30mA	267mA	75%
MAA 11 017	12VDC	5VDC	200mA	15mA	103mA	81%
MAA 11 032	12VDC	12VDC	84mA	15mA	104mA	81%
MAA 11 038	12VDC	15VDC	67mA	15mA	102mA	82%
MAA 11 247	12VDC	±12VDC	42mA	15mA	105mA	80%
MAA 11 256	12VDC	±15VDC	33mA	15mA	103mA	80%
MAA 11 203	12VDC	±5VDC	100mA	15mA	111mA	75%

Note:

Nominal input voltage 5 or 12VDC.

Communication Line – MAA 11 Series

1W SINGLE AND DUAL OUTPUT DC/DC CONVERTER



PIN CONNECTION		
PIN	SINGLE OUTPUT	DUAL OUTPUT
1	+Vin	+Vin
2	-Vin	-Vin
4	-Vout	-Vout
5	No Pin	Common
6	+Vout	+Vout

PIN CONNECTION	
PIN	SINGLE OUTPUT
1	-Vin
2	+Vin
3	NA
4	-Vout
5	+Vout
6	NA
7	NA
8	NA

PIN CONNECTION	
PIN	DUAL OUTPUT
1	-Vin
2	+Vin
3	NA
4	Common
5	-Vout
6	NA
7	+Vout
8	NA
9	NA
10	NA

Specifications are subject to change without notice.