

P R B X

POWERBOX Industrial Line
MAF08 Series
6-24W Single Output
DC/DC Converter

Features

6-24W non-isolated output
DIP-24/SMD package
Efficiency to 94%
Regulated outputs
Input LC filter

Input

Input voltage range	5V	4.7-6V
	12V	9-32V
	24V	16-32V
	24V	19-32V

Input filter LC type

Output

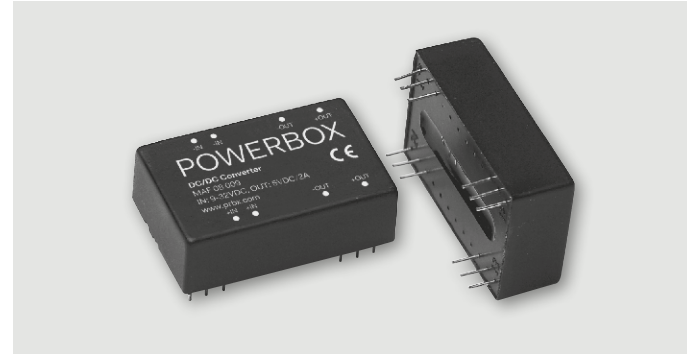
Voltage accuracy	±2.0% max.	
Temperature coefficient	±0.05%/°C	
Ripple and noise ^{20MHz BW}	3.3V/5V	100mV p-p max.
	12V/15V	1% p-p max.
Over current protection	120~160%	
Line regulation ¹	±0.5% max.	
Load regulation ²	±0.5% max.	

Environmental

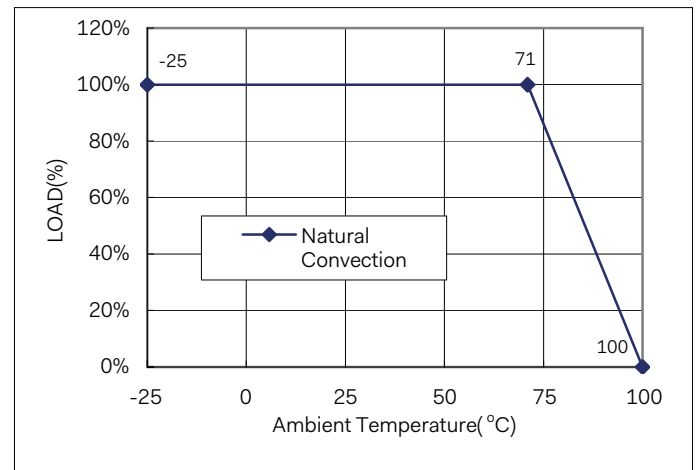
Operating ambient temp.	-25 to +71°C
Derating above 71°C	Linearly to zero power at 100°C
Case temperature ⁴	100°C max.
Cooling	Natural convection
Storage temperature	-40 to +100°C

General

Efficiency	See table
Switching frequency	150KHz typ.
Isolation voltage	Non-isolation (input-output)
Dimensions	DIP: 31.8 x 20.3 x 10.2 mm
	SMD: 31.8 x 20.3 x 11.4 mm
Weight	17.8g
Case material	Black coated copper with non-conductive base



Typical Derating curve for Natural Convection



Note:

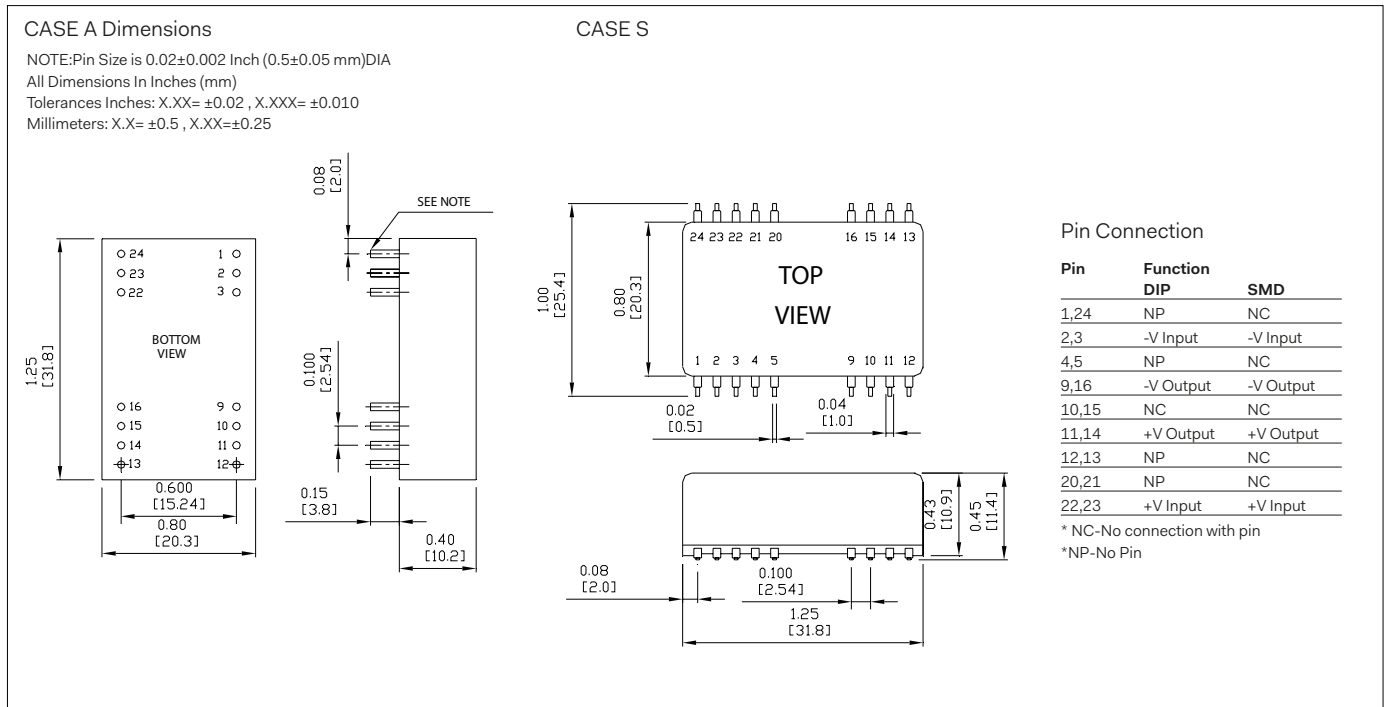
1. Measured from high line to low line.
2. Measured from full load to 10% load.
3. Suffix "S" to the model number with SMD packages.
4. Max case temperature under any operating conditions should not be exceeded 100°C.

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Model Number	Input Voltage	Output Voltage	Output Current	Input Current		Efficiency	Case
				No Load	Full Load		
MAF 08 003	4.7-6 VDC	3.3 VDC	2000 mA	15 mA	1553 mA	85 %	DIP-24
MAF 08 006	9-32 VDC	3.3 VDC	2000 mA	15 mA	655 mA	84 %	DIP-24
MAF 08 009	9-32 VDC	5 VDC	2000 mA	15 mA	947 mA	88 %	DIP-24
MAF 08 012	9-32 VDC	12 VDC	830 mA	15 mA	954 mA	87 %	DIP-24
MAF 08 015	9-32 VDC	15 VDC	666 mA	15 mA	957 mA	87 %	DIP-24
MAF 08 018	16-32 VDC	12 VDC	1600 mA	15 mA	860 mA	93 %	DIP-24
MAF 08 021	19-32 VDC	15 VDC	1600 mA	15 mA	1064 mA	94 %	DIP-24

Note:
 Nominal input voltages 5, 12 or 24 VDC.
 Add suffix S for SMD type case

Mechanical



Specifications are subject to change without notice.