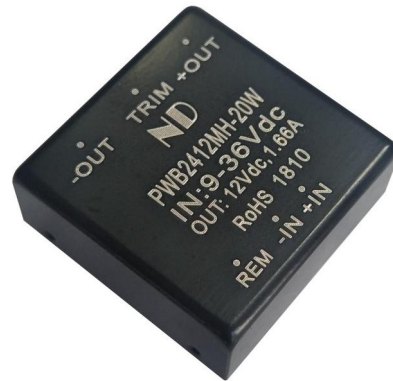


NDDY	PWA (B) _MH-20W	20W, WIDE INPUT, ISOLATED & REGULATED DUAL(SINGLE) OUTPUT DC/DC CONVERTER
	PRODUCT SPECIFICATION	

● **FEATURES**

- Size: 25.4mm*25.4mm*11.8mm
- International standard pin-out
- Wide input voltage range(4:1)
- Low ripple & noise
- Short circuit protection
- ROHS compliant
- Isolation voltage: 1500VDC
- Operating temperature range:-40℃~+85℃
- 3 years warranty



● **DESCRIPTION**

This is a 10W DC/DC converter specifically designed for applications where input voltage range is large and the space is limited. It is widely used in communications equipment, power system, instrumentation, industrial control, intelligent equipment, and etc.

● **PRODUCT LIST**

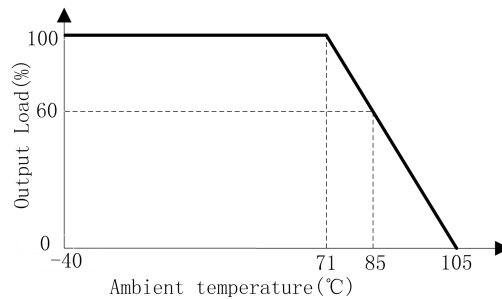
Product Name	Input Voltage / VDC		Output		EFF/% (TYP.)	Maximum CAP Load/uF
	Normal	Range	Voltage /VDC	Current/mA Max./Min.		
PWA2405MH-20W	24	9~36	±5	±2000	88	2000
PWA2412MH-20W			±12	±835	88	1000
PWA2415MH-20W			±15	±666	88	800
PWB2403MH-18W			3.3	5500	87	5500
PWB2405MH-20W			5	4000	90	4000
PWB2412MH-20W			12	1670	89	1800
PWB2415MH-20W			15	1330	89	1500
PWA4805MH-20W	48	18~72	±5	±2000	88	2000
PWA4812MH-20W			±12	±835	88	1000
PWA4815MH-20W			±15	±666	88	800
PWB4803MH-18W			3.3	5500	87	5500
PWB4805MH-20W			5	4000	90	4000
PWB4812MH-20W			12	1670	89	1800
PWB4815MH-20W			15	1330	89	1500

● **PRODUCT PARAMETERS**

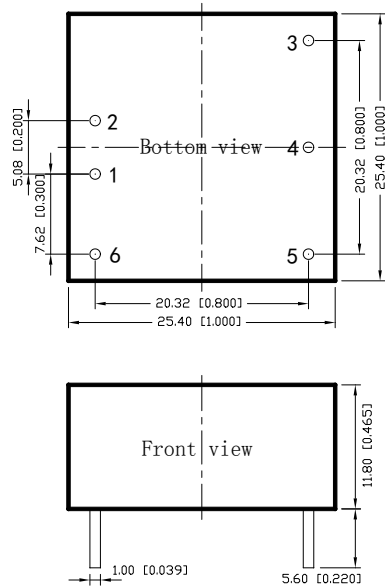
Parameter	Conditions / Description	Min	Nom	Max	Unit
Voltage accuracy	3.3Vo 5Vo	-	±2	±5	%
	Other output	-	±1	±3	%
Load regulation	10%~100Io	-	±0.5	±1	%
Line regulation	100Io, input votagel range	-	±0.2	±0.5	%

Ripple & Noise	20MHz BW	5Vo	-	50	-	mVp-p
		Other output	-	100	-	
Switching frequency	Nominal input voltage, 100%Io		-	200	-	kHz
SCP	Short circuit protection		Continuous, self-recovery			
Temperature coefficient	Nominal input voltage, 100%Io		-	0.02	-	%/°C
Operating temperature			-40	-	+85	°C
Storage temperature			-40	-	+125	°C
Storage humidity	No condensing		-	-	95	%RH
Cooling method			Natural air cooling			
Insulation voltage			1500	-	-	VDC
Insulation resistance	Input-output, 500VDC, 25°C, 70%RH		1000	-	-	Mohms
MTBF	MIL-HDBK-217F@25°C		100	-	-	KHours
Case material			Metal			
Weight			-	15	-	g

● DERATING CURVE



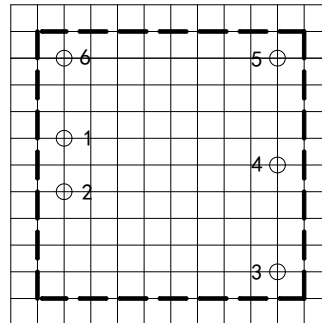
● DIMENSIONS AND PIN ASSIGNMENT



Unit: mm[inch]
 Pin diameter tolerance: $\pm 0.10[\pm 0.004]$
 General tolerance: $\pm 0.50[\pm 0.020]$

PIN	1	2	3	4	5	6
PWB	GND	Vin	+Vo	TRIM	-Vo	REM
PWA	GND	Vin	+Vo	COM	-Vo	REM

Recommended PCB LAYOUT



Note1: Grid is 2.54mm*2.54mm
 Note2: Hole diameter is advised 1.5mm

● NOTES

1. Unless otherwise specified, data in this specification is tested with nominal input voltage, rated output load, and $T_a=25^\circ\text{C}$, humidity < 75%RH.
2. All data testing methods are based on Guangzhou NengDa company standards.
3. Specification of the product may be subject to change without prior notice.
4. All right reserved by Guangzhou NengDa Power Supply Technology Co., Ltd.