



1000Vdc Twin Output 1 Watt Dc-Dc Converter



FEATURES:

- 7PIN SIP Package
- High Efficiency up to 85%
- Recognized By UL 60950-1
- Unregulated Output Types
- Internal SMD Construction ● No External Component Required
- Operating Temperature: -40°C TO +85°C ● Industry Standard Pinout



Specifications typical at TA=25°C, nominal input voltage and rated output current unless otherwise specified

Part Number	Output2		Efficiency
	Voltage (VDC)	Current (mA)	%TYP
17D-XXDXX03NNL	3.3	150	70
17D-XXDXX05NNL	5	100	70
17D-XXDXX09NNL	9	56	70
17D-XXDXX12NNL	12	42	70
17D-XXDXX15NNL	15	34	70
17D-XXDXX24NNL	24	21	70

Note: 1. "XX" Is Voltage: 03=3.3Vdc, 05=5Vdc, 09=9Vdc, 12=12Vdc, 15=15Vdc, 24=24Vdc.

2. 3.3V for output only, not for input.

3. The input voltage increases, there will be an increase in efficiency.

Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Voltage Tolerance	Vo, Io Nom			±5	%
Filter	Capacitor				

Output Specifications

Parameters	Conditions	Min	Typ	Max	Units
Voltage Tolerance	100% full load			±5	%
Short Circuit Protection	Short Term			1 Sec	
Line Regulation	For 1.0% OF Vin		1.2		%
Load Regulation	3.3V, 5V (10% To 100% F.L.)			15	%
Load Regulation	9V, 12V, 15V (10% To 100% F.L.)			10	%
Ripple & Noise	BW=DC To 20MHz			100	mVp-p
Transient response setting time	50% load step change		350		us

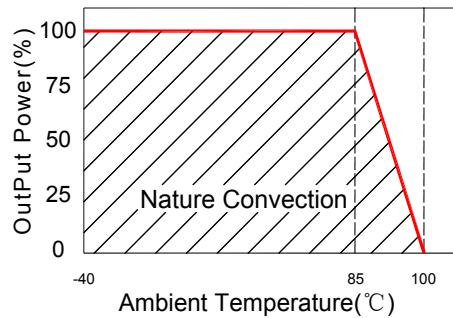
General Specifications

Parameters	Conditions	Min	Typ	Max	Units
Isolation Resistance	500Vdc	1000			MΩ
Switching Frequency	Full load, nominal input		100		KHz
Operating Temperature		-40		+85	°C
Humidity	Non Condensing			95	%
Cooling	Free air Convection				
Case material	DAP				
MTBF	MIL-HDBK-217F@25°C	2500000			Hours
Weight			2.1		g
Dimensions			19.5x6.0x10.0		mm

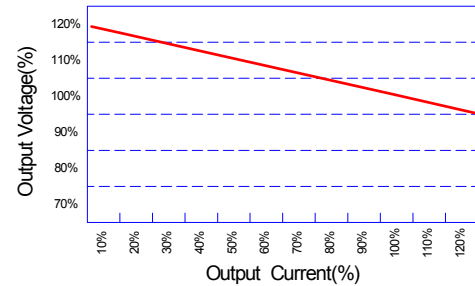


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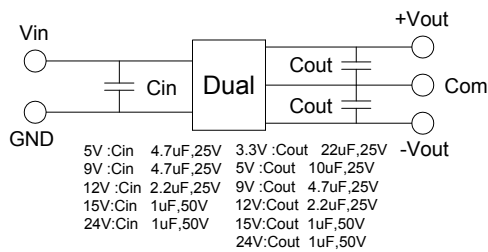
Temperature Derating Graph



Tolerance Envelope Graph



Recommended Test Circuit



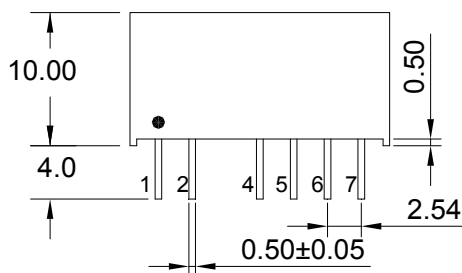
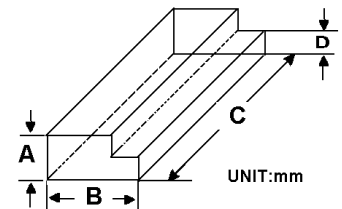
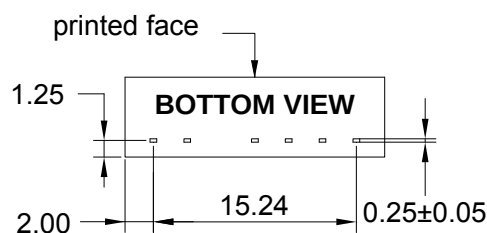
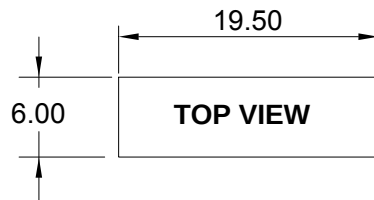
Part Number

17D - 05 D 0503 N NL
A B C D E F

A:Series
B:Input Voltage
C:Dual(D)
D:Output Voltage
E:Unregulated(N)
F:RoHS Version

Markings and dimensions

Packaging



UNIT:mm Unless otherwise specified,all tolerances are ±0.25

Size(mm)			
A	B	C	D
9.50	16.50	522	5.00

PIN Connection

PIN	1	2	4	5	6	7
Dual	+Vin	-Vin	+Vout1	- Vout1	+Vout2	-Vout2