



3 ~ 8 Watts DIP Type Wide Input DC - DC Converters

FEATURES

- ◆ Dip24 Package
- ◆ Typical Efficiency 80%
- ◆ 2:1 & 4:1 Input Range
- ◆ Regulated Output
- ◆ Metal Case

SPECIFICATIONS

Input Voltage Range2:1/4:1 Range
 Nominal Line.....12/24/48 VDC
 Input Filter.....PI Network
 Voltage Accuracy.....± 2% max.
 Temperature Coefficient..... ± 0.03%/°C
 R&N (20MHz BW).....(3.3V/5V/9V).....100mVp-p max
 (12V/15V).....1%Vp-p max
 Load Regulation.....(FL-10%FL)..... ± 0.5% max
 Line Regulation(HL-LL)..... ± 0.5% max
 Short Circuit ProtectionContinuous
 Min Load : For Single Output Modelsnone
 For Dual Output Models10%FL ea.Output
 For Triple Output Models10%FL ea.Output
 Switching Frequency.....50KHz min
 Isolation Voltage.....1500VDC min
 Case Size31.8mmx20.3mmx12.2mm
 Operating Temperature.....-25°C To +71°C
 Storage Temperature.....-40°C To +100°C
 Cooling.....Free-Air Convection
 Case Material..Black Coated Metal With Non-Conductive Base

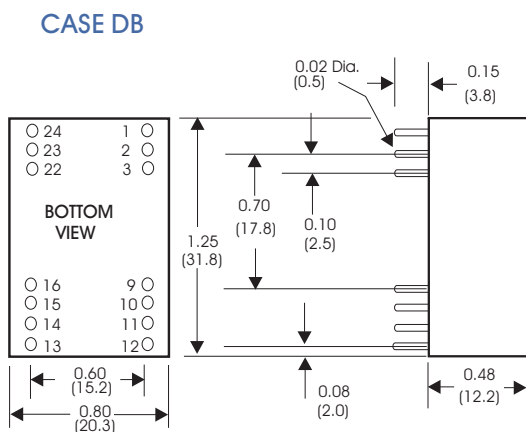
Note:

- x = 0, input 5VDC, range: 4.5-9VDC.
- x = 1, input 12VDC, range: 9-18VDC.
- x = 2, input 24VDC, range: 18-36VDC.
- x = 3, input 48VDC, range: 36-72VDC.
- x = 4, input 12VDC, range: 9-36VDC
(not available for DW04)
- x = 5, input 24VDC, range: 18-72VDC
(not available for DW05)
- DW05-05: ± 12VDC, ± 167mA.
- DW04 series, without CE & FCC.

Model Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	EFF. %	
3 Watts Models (Package A or B)					
DW03-x1(A/B)	See Note	5	600	72	
DW03-x2(A/B)	See Note	12	250	78	
DW03-x3(A/B)	See Note	15	200	78	
DW03-x4(A/B)	See Note	± 5	± 300	71	
DW03-x5(A/B)	See Note	± 12	± 125	78	
DW03-x6(A/B)	See Note	± 15	± 100	78	
DW03-x9(A/B)	See Note	24	125	78	
4 Watts Models (Package T)					
DW04-X7	See Note	V1	5	300	74
		V2	+12	100	
		V3	-12	100	
DW04-X8	See Note	V1	5	300	74
		V2	+15	80	
		V3	-15	80	
5 Watts Models (Package A or B)					
DW05-x0	See Note	3.3	1200	74	
DW05-x1	See Note	5	1000	75	
DW05-x2	See Note	12	470	80	
DW05-x3	See Note	15	400	81	
DW05-x4	See Note	5	±500	75	
DW05-x5	See Note	±12	208	80	
DW05-x6	See Note	±15	±190	81	
DW05-x9	See Note	24	208	81	
8 Watts Models (Package A)					
DW08-x1	See Note	5	1600	75	
DW08-x1B	See Note	9	888	80	
DW08-x2	See Note	12	670	80	
DW08-x3	See Note	15	533	80	
DW08-x4	See Note	±5	±800	77	
DW08-x4D	See Note	±9	±444	78	
DW08-x5	See Note	±12	±335	80	
DW08-x6	See Note	±15	±266	80	

DC/DC Converter

MECHANICAL DRAWING (Unit: inch(mm))



Package A

PIN CONNECTIONS		
Pin#	Single	Dual
2&3	-Vin	-Vin
9	N.C.	Com.
10&15	N.P.	N.P.
11	N.C.	-Vo
14	+Vo	+Vo
16	-Vo	Com.
22&23	+Vin	+Vin
1, 24, 12, 13	N.P.	N.P.

Package B

PIN CONNECTIONS		
Pin#	Single	Dual
1 & 24	+Vin	+Vin
2 & 23	N.P.	-Vo
3 & 22	N.P.	Com.
10 & 15	-Vo	Com.
11 & 14	+Vo	+Vo
12 & 13	-Vin	-Vin
9 & 16	N.P.	N.P.

Package C

PIN CONNECTIONS		
Pin	Single	Dual
1 & 2	+Vin	+Vin
10 & 11	NC	Com.
12	-Vout	NC
13	+Vout	-Vout
15	NC	+Vout
23 & 24	-Vin	-Vin

Package T

PIN CONNECTIONS	
Pin	Triple
1 & 2	-Vin
23 & 24	+Vin
9 & 16	-Vout (Out3)
10 & 15	Com.
11 & 14	+5V/300mA (Out1)
12 & 13	+Vout (out2)

*N.P.=No Pin N.C.=No Connection