

3 Watts DIP Type DC - DC Converter

FEATURES

- Safety Meets EN60601-1 3rd EDITION For 2 x MOPP
- I/O Isolation 5000VAC Rated For 250VAC Working Voltage
- Creepage Distance And Clearance > 8mm
- 9-36V, 18-75V wide Input Range
- Low Leakage Current
- 3 Years Warranty

SPECIFICATIONS

Input Voltage Range 4:1 Input Range
 Input Filter.....PI Network
 Protection.....Fuse Recommended
 Voltage Set-Point Accuracy..... $\pm 2\%$ max.
 Temperature Coefficient..... $\pm 0.05\%/^{\circ}\text{C}$
 Ripple & Noise (20MHz BW).....150mVp-p max.
 Line Regulation¹..... $\pm 0.5\%$ max.
 Load Regulation²..... $\pm 0.5\%$ max.
 Minimum Load20% of full load
 Short Circuit ProtectionContinuous
 Over Load Protection150% Typ.
 Efficiency.....77% min.
 Short Circuit RestartAutomatic
 Transient Response.....500 μs max.
 Isolation Voltage³.....5000VAC Typ.
 Leakage Current.....5 μA max.
 Reinforces Insulation.....Creepage Distances 8mm min.
 Air Clearances 8mm min.
 Isolation Resistance.....10⁹ Ω min.
 Switching Frequency.....400KHz typ.
 Isolation Capacitance20pF max.
 Operating Temperature-40 $^{\circ}\text{C}$ To +71 $^{\circ}\text{C}$
 Cooling.....Free-Air Convection
 Case Material.....Non-Conductive Plastic
 Case Temperature.....105 $^{\circ}\text{C}$ max.
 Case Size.....31.8*20.3*12.2 mm
 Weight17g

Note:

(1) High line to Low line.

(2) Load Regulation is for output Load current change from 20% to 100%.

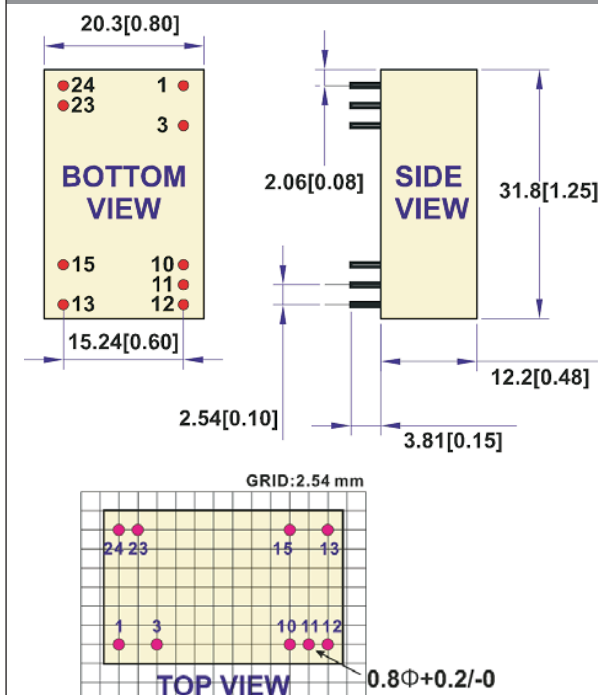
(3) 6000VDC For 1 minute



Model Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	EFF. % (min.)
DMW03-41(R)	9-36	5	600	79
DMW03-42(R)	9-36	12	250	80
DMW03-43(R)	9-36	15	200	79
DMW03-44(R)	9-36	± 5	± 300	79
DMW03-45(R)	9-36	± 12	± 125	79
DMW03-46(R)	9-36	± 15	± 100	78
DMW03-51(R)	18-75	5	600	78
DMW03-52(R)	18-75	12	250	79
DMW03-53(R)	18-75	15	200	79
DMW03-54(R)	18-75	± 5	± 300	79
DMW03-55(R)	18-75	± 12	± 125	79
DMW03-56(R)	18-75	± 15	± 100	77

* Optional Remote On/Off control function, please suffix R on model # when ordering.

MECHANICAL DRAWING (Unit: mm[inch])



Pin Connection

Pin#	Single	Dual
1	Vi+	Vi+
3	NP/*Remote	NP/*Remote
10	NP	NP
11	NP	Common
12	Vo-	NP-
13	Vo+	Vo-
15	NP	Vo+
23	Vi-	Vi-
24	Vi-	Vi-

Note:

NP : No Pin

* If Remote is not selected there is no pin on corresponding number

Pin Size is Tolerance 0.6 Φ $\pm 0.05\text{mm}$.

All dimensions are in mm(inches)

Tolerance .X= or .XX= $\pm 0.5\text{mm}$

Remote On/Off Control

Remote On/Off Control			
Control Input	PIN3	Control Common	PIN23&PIN24
Control Voltage		Converter Shutdown Idle Current	10mA
ON	$>+2.5\text{VDC}$ or Open Circuit	Logic Compatibility	CMOS or Open Collector TTL
OFF	$<+0.8\text{VDC}$ or Jumper to PIN23&PIN24		