

## 5 Watts DIP Type Wide Input DC - DC Converters

### FEATURES

- 5-6W Isolated Output / 24-Pin DIP Package / 2:1 Input Range
- Regulated Outputs
- Continuous Short Circuit Protection / High Efficiency Up To 82%
- (Optional) Conductive EMI Meet EN55022 Class B

### SPECIFICATIONS

Input Filter.....	PI Type
Voltage Accuracy.....	± 2%max.
Voltage Balance(Dual).....	± 1% max.
Temperature Coefficient.....	± 0.05%/°C
Ripple&Noise (20MHz BW).....	(5V).....100mVp-p max. (12/ 15V).....1%Vp-p max.
Short Circuit Protection.....	Continuous
Line Regulation, Single/Dual .....	(LL-HL).....± 0.5%
Load Regulation, Single.....	(10%FL-FL).....± 0.5%
Dual.....	(25%FL-FL).....± 1%
I/O Isolation.....(Standard Models).....	500VDC min.
Switching Frequency.....	100KHz min.
Operating Temperature Range.....	-25°C To +71°C
Storage Temperature Range.....	-40°C To +100°C
Dimensions .....	1.25 x 0.8 x 0.4 inches (31.8 x 20.3 x 10.2mm)
Case Material.....	
Standard Models....	Non-Conductive Black Plastic
Suffix "M/M1" Models.....	Black Coated Copper with Non-Conductive Base

All Specifications are Typical at Nominal Line, full Load and 25°C.  
Unless Otherwise Noted.



Model Number	Input Voltage	Output Voltage (VDC)	Output Current (mA)	EFF. % (min.)
E05-x0(B/M/M1/P3/T)	See Note"x"	3.3	1000	70
E05-x1(B/M/M1/P3/T)	See Note"x"	5	1000	76
E05-x2(B/M/M1/P3/T)	See Note"x"	12	470	80
E05-x3(B/M/M1/P3/T)	See Note"x"	15	400	80
E05-x4(B/M/M1/P3/T)	See Note"x"	± 5	± 500	76
E05-x5(B/M/M1/P3/T)	See Note"x"	± 12	± 230	80
E05-x6(B/M/M1/P3/T)	See Note"x"	± 15	± 190	80

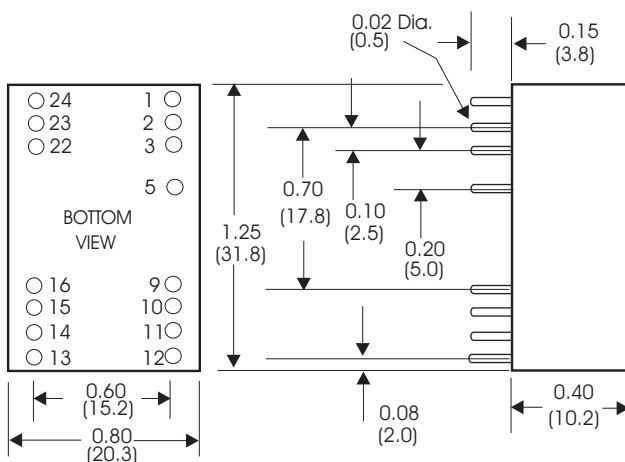
Note: Input Voltage "x":

x=1, Input Voltage= 9~18VDC, Nominal=12VDC, Pin connection A or B.  
x=2, Input Voltage=18~36VDC, Nominal=24VDC, Pin connection A or B.  
x=3, Input Voltage=36~72VDC, Nominal=48VDC, Pin connection A or B.  
x=4, Input Voltage= 9~36VDC, Nominal=24VDC, Pin connection B only.  
x=5, Input Voltage= 18~72VDC, Nominal=48VDC, Pin connection B only

Model Number Suffix:

1. "B": Optional for EN55022 class B, for Input Range 2:1 only.
2. "M": Optional for 500V I/O Isolation with metal case.
3. "M1": Optional for 1.5KV I/O Isolation with metal case.
4. "P3": Optional for 3KV I/O Isolation with plastic case.
5. "T": Optional Remote On/Off for class B version Isolation 3KV & Input Range 2:1 Model Only.
6. UL Approved Models optional for Input Range 2:1 & Class B Version with Isolation 1.5KV/3KV Models only.

### MECHANICAL DRAWING (Unit: inch(mm))



\* Pin # 5 for Remote on/off (optional) function only.  
All other conditions Pin # 5 will be No Pin (N.P.).

Pin Connections A								
Standard Models 500VDC Suffix "M" For Metal Case								
Pin#	Single	Dual	Pin#	Single	Dual	Pin#	Single	Dual
1	+Vi	+Vi	11	+Vo	+Vo	16	N.P.	N.P.
2	N.C.	-Vo	12	-Vi	-Vi	22	N.C.	Com.
3	N.C.	Com.	13	-Vi	-Vi	23	N.C.	-Vo
9	N.P.	N.P.	14	+Vo	+Vo	24	+Vi	+Vi
10	-Vo	Com.	15	-Vo	Com.			

Pin Connections B								
1.5KVDC SUFFIX "M1" 3KVDC Suffix "P3"								
Pin#	Single	Dual	Pin#	Single	Dual	Pin#	Single	Dual
1	N.P.	N.P.	11	N.C.	-Vo	16	-Vo	Com.
2	-Vi	-Vi	12	N.P.	N.P.	22	+Vi	+Vi
3	-Vi	-Vi	13	N.P.	N.P.	23	+Vi	+Vi
9	N.C.	Com.	14	+Vo	+Vo	24	N.P.	N.P.
10	N.C.	N.C.	15	N.C.	N.C.			

\* Specify Pin connection type ( A or B ) when order .