

DC-DC Converters ... Isolation » 7.5Warr Wide Input DC To DC Converteres ::

:: [EA7.5] ::

[Specifications](#) [Models List](#) [Mechanical Drawing](#)

Features:

- 7.5W Isolated Output
- 24-Pin DIP Package
- 2:1 Input Range
- Efficiency
- Regulated Outputs
- Pi Input Filter
- Continuous Short Circuit Protection



Specifications:

[TOP](#)

Parameter	Description/SPEC.:
Input Filter	Pi Type
Voltage Accuracy	±2% max.
Voltage Balance (Dual)	±1% max.
Temperature Coefficient	±0.05%/° C
Ripple & Noise (20MHz BW)	(5V).....75mVp-p max. (12/15V).....100mVp-p max.
Short Circuit Protection	Continuous
Line Regulation	Singl / Dual....(HL-LL).....±0.2% max.
Load Regulation	Single.....(FL-10%FL).....±0.5% max. Dual.....(FL-25%FL).....±1.0% max.
Efficiency	See Model List
Isolation Voltage	1500VDC min.
Isolation Resistance	10 ³ MO min.
Switching Frequency	300KHz Typ
Operating Temperature Range	-25 TO +71° C
Case Temperature	100° C max
Cooling	Free Air Convection
Storage Temperature Range	-40 To +100° C
Dimensions Case D	1.25 X 0.8 X 0.4 Inches (31.8 X 20.3 X 10.2 mm)
Case Material	Black Coated Copper With Non-Conductive Base

Notices:

[TOP](#)

- * NP-NO PIN
- * NC-NO CONNECTION WITH PIN
- * SMD type available. Consult FranMar.

Model List:

[TOP](#)

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

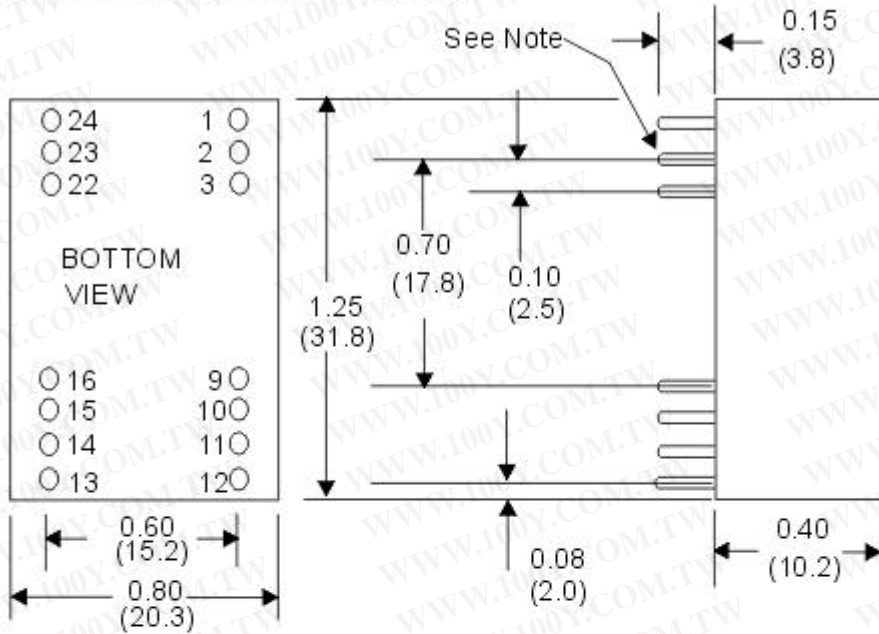
No.	Model	Input	Output	Iomin	Iomax	Load Reg.	Power
1.	EA7.5-11	9-18 VDC	+5.00VDC	0.00mA	1500.00mA	±0.50%	7.50(w)
2.	EA7.5-12	9-18 VDC	+12.00VDC	0.00mA	625.00mA	±0.50%	75.00(w)
3.	EA7.5-13	9-18 VDC	+15.00VDC	0.00mA	500.00mA	±0.50%	75.00(w)
4.	EA7.5-14	9-18 VDC	+5.00VDC -5.00VDC	0.00mA 0.00mA	750.00mA 750.00mA	±1.00% ±1.00%	7.50(w)
5.	EA7.5-15	9-18 VDC	+12.00VDC -12.00VDC	0.00mA 0.00mA	310.00mA 310.00mA	±1.00% ±1.00%	7.50(w)
6.	EA7.5-16	9-18 VDC	+15.00VDC -15.00VDC	0.00mA 0.00mA	250.00mA 250.00mA	±1.00% ±1.00%	7.50(w)
7.	EA7.5-21	18-36 VDC	+5.00VDC	0.00mA	1500.00mA	±0.50%	7.50(w)
8.	EA7.5-22	18-36 VDC	+12.00VDC	0.00mA	625.00mA	±0.50%	7.50(w)
9.	EA7.5-23	18-36 VDC	+15.00VDC	0.00mA	500.00mA	±0.50%	7.50(w)
10.	EA7.5-24	18-36 VDC	+5.00VDC -5.00VDC	0.00mA 0.00mA	750.00mA 750.00mA	±1.00% ±1.00%	7.50(w)
11.	EA7.5-25	18-36 VDC	+12.00VDC -12.00VDC	0.00mA 0.00mA	310.00mA 310.00mA	±1.00% ±1.00%	7.50(w)
12.	EA7.5-26	18-36 VDC	+15.00VDC -15.00VDC	0.00mA 0.00mA	250.00mA 250.00mA	±1.00% ±1.00%	7.50(w)
13.	EA7.5-31	36-72 VDC	+5.00VDC	0.00mA	1500.00mA	±0.50%	7.50(w)
14.	EA7.5-32	36-72 VDC	+12.00VDC	0.00mA	625.00mA	±0.50%	7.50(w)
15.	EA7.5-33	36-72 VDC	+15.00VDC	0.00mA	500.00mA	±0.50%	7.50(w)
16.	EA7.5-34	36-72 VDC	+5.00VDC -5.00VDC	0.00mA 0.00mA	750.00mA 750.00mA	±1.00% ±1.00%	7.50(w)
17.	EA7.5-35	36-72 VDC	+12.00VDC -12.00VDC	0.00mA 0.00mA	310.00mA 310.00mA	±1.00% ±1.00%	7.50(w)
18.	EA7.5-36	36-72 VDC	+15.00VDC -15.00VDC	0.00mA 0.00mA	250.00mA 250.00mA	±1.00% ±1.00%	7.50(w)
Remark:				TOP			

Note: Nonimal Input Voltage 12, 24 or 48 VDC.

Mechanism

CASE D

All Dimensions In Inches (mm)



Note: Pin Size is 0.020" inch (0.5mm) DIA or 0.020 x 0.014 Inch

Pin connections 1.5K VDC					
Pin#	Single Output	Dual Output	Pin#	Single Output	Dual Output
1	NP	NP	13	NP	NP
2	-V Input	-V Input	14	+V Output	+V Output
3	-V Input	-V Input	15	NC	NC
5	NP	NP	16	-V Output	Common
9	NC	Common	22	+V Input	+V Input
10	NC	NC	23	+V Input	+V Input
11	NC	-V Output	24	NP	NP
12	NP	NP			

*NP-NO PIN

*NC-NO CONNECTION WITH PIN

SMD type information

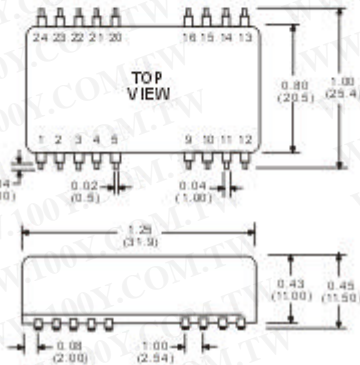
SMD Informations



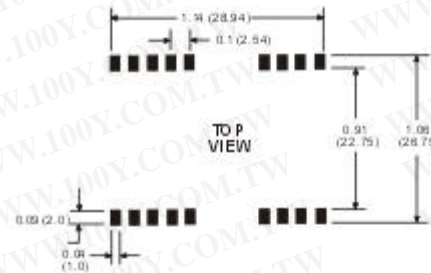
SMD type Available Models:

1. E03 Series, suffix M/M1 models
2. E05 Series, suffix M/M1 models
3. EA7.5 Series all models

Recommended Layout : All Dimensions in Inches (mm)



PIN CONNECTION					
500VDC			1.6K VDC		
RM	SINGLE	DUAL	SINGLE	DUAL	
1	+V Input	+V Input	NC	NC	
2	NC	-V Output	-V Input	-V Input	
3	NC	Common	-V Input	-V Input	
4	NC	NC	NC	NC	
5	NC	NC	NP or Remote On/Off	NC	
9	NC	NC	NC	Common	
10	-V Output	Common	NC	NC	
11	+V Output	+V Output	NC	-V Output	
12	-V Input	-V Input	NC	NC	
13	-V Input	-V Input	NC	NC	
14	+V Output	+V Output	+V Output	+V Output	
15	-V Output	Common	NC	NC	
16	NC	NC	-V Output	Common	
20	NC	NC	NC	NC	
21	NC	NC	NC	NC	
22	NC	Common	+V Input	+V Input	
23	NC	-V Output	+V Input	+V Input	
24	+V Input	+V Input	NC	NC	



Recommended Reflow Profile:

