

DH15

MAX. Power 15W Isolated Small DC-DC Converter

DH15 Series Encapsulated PCB Type Small DC-DC Converter



Features

- Encapsulated Compact Size
- High Efficiency
- Isolated Input - Output
- 300kHz fixed frequency and Current mode Control
- Low output Ripple & Noise
- Built-in over current protection circuit
- Wide 2 :1 input range
- Safety : Meets UL/CE Standard (Approvals pending)
- RoHS compatible design
- 3-years warranty

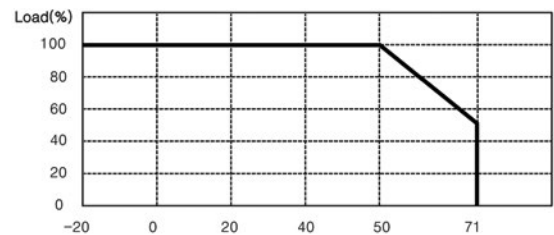
Environment

- Operating Temperature : -20°C ~ 71°C
- Operating Humidity : 20% ~ 90% RH (Non condensing)
- Storage Temperature : -40°C ~ 105°C
- Cooling : Free-Air Convection
- MTBF : 6.0 x 10⁵ hrs

Applications

- Data and telecommunication
- Datacommunication electronic equipments
- FA control

Derating Curve



* Operating Temperature Range : From -20°C to 71°C

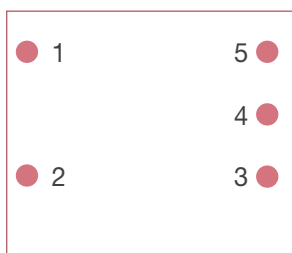
General Specifications

Input	Input Voltage Range	24V(18~36), 48V(36~72)
	Efficiency	79% ~ 87%
Output	Output Voltage	3.3V, 5V, 9V, 12V, 15V, 24V
	Line Regulation	± 0.5%
	Load Regulation	± 1.0%
	Output Voltage Accuracy	± 2.0%
	Output Voltage adj. Range	None
Protection Circuit	Over Current Protection	Works at over 105% of rating and recovers automatically
	Over Voltage Protection	None
Electrically Isolated	High Pot	Input / Output, Input / Case, Output / Case : AC500V 1minute
	Isolation	Input / Output, Input / Case, Output / Case : DC500V 100MΩ

DHS15 Series Ordering Information (Single Output)

MODEL	DHS15-24-3R3	DHS15-24-05	DHS15-24-09	DHS15-24-12	DHS15-24-15	DHS15-24-24	DHS15-48-3R3	DHS15-48-05	DHS15-48-09	DHS15-48-12	DHS15-48-15	DHS15-48-24	
Input Voltage (V)	24 (18 ~ 36)						48 (36 ~ 72)						
Output	Vout (V)	3.3	5	9	12	15	24	3.3	5	9	12	15	24
	Iout (A)	2.8	2.8	1.6	1.25	1	0.63	2.8	2.8	1.6	1.25	1	0.63
Maximum Power (W)	9.24	14	14.4	15	15	15.12	9.24	14	14.4	15	15	15.12	
Ripple & Noise (mVp-p)	70	70	100	120	150	200	70	70	100	120	150	200	
Efficiency Typ. (%)	82	85	86	87	87	87	79	81	83	85	85	85	

Pin assignments



| Top View |

Pin No.	Single
1	+Vin
2	-Vin
3	-Vout
4	No Pin
5	+Vout

Outline Dimensions : (Unit : mm (inch))

