



## 1500Vdc Isolation Single & Dual Output 3 Watt Dc-Dc Converter



### FEATURES:

- 5PIN DIL PACKAGE
- Low Ripple & Noise
- High Efficiency up to 85%
- Regulated Output Types
- Internal SMD Construction
- Operating Temperature:-40°C TO +85°C ● Industry Standard Pinout



Specifications typical at TA=25°C, nominal input voltage and rated output current unless otherwise specified

PART NO.	OUTPUT VOLTAGE	OUTPUT CURRENT	Efficiency
	Vdc	mA	%TYP
60D-XXS05C	5	600	65
60D-XXS09C	9	333	70
60D-XXS12C	12	250	75
60D-XXS15C	15	200	80
60D-XXS24C	24	125	80
60D-XXD05C	±5	±300	65
60D-XXD09C	±9	±167	70
60D-XXD12C	±12	±125	75
60D-XXD15C	±15	±100	80
60D-XXD24C	±24	±63	80

Note:1."XX" Is Input Voltage :05=5Vdc,09=9Vdc,12=12Vdc,15=15Vdc,24=24Vdc,48=48Vdc.

2.The input voltage increases, there will be an increase in efficiency.

### Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Voltage Tolerance	Vo, Io Nom			±10	%
Filter	Capacitor				

### Output Specifications

Parameters	Conditions	Min	Typ	Max	Units
Voltage Tolerance	100% full load			±3	%
Short Circuit Protection	Continuous				
Line Regulation	Regulated			±0.5	%
Load Regulation	Regulated			±0.8	%
Ripple & Noise	Output:5-9V TYPES BW=DC To 20MHz			100	mVp-p
Ripple & Noise	Output:12-24V TYPES BW=DC To 20MHz			1% of Vout	mVp-p

### General Specifications

Parameters	Conditions	Min	Typ	Max	Units
Isolation Resistance	500Vdc	1000			MΩ
Switching Frequency	Full load,nominal input		100		KHz
Operating Temperature		-40		85	°C
Humidity	Non Condensing			95	%
Cooling	Free air Convection				
Case material	Nickel Coated With Non-Conductive Base or Black Coated Copper With NON-Conductive Base				
MTBF	MIL-HDBK-217F@25°C	1500000			Hours
Weight			15.5		g
Dimensions		50.8x25.4x10.2			mm



1500Vdc Isolation Single & Dual Output 3 Watt Dc-Dc Converter

Temperature Derating Graph	Part Number
	<p>60D - 05 S 05 C</p> <p style="margin-left: 20px;">A    B    C    D    E</p> <p>A:Series B:Input Voltage C:Single(S) Dual(D) D:Output Voltage E:Types</p>

Recommended Test Circuit	
<p style="text-align: center;">Cin: 10uF,100V Cout: 100uF,25V</p>	<p style="text-align: center;">Cin: 10uF,100V Cout: 100uF,25V</p>

Markings and dimensions	Packaging									
<p>Unit:mm Unless otherwise specified, all tolerances are <math>\pm 0.25</math></p>	<table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center;">Size(mm)</th> </tr> <tr> <th style="width: 33%;">A</th> <th style="width: 33%;">B</th> <th style="width: 33%;">C</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">54.00</td> <td style="text-align: center;">50.30</td> <td style="text-align: center;">30.00</td> </tr> </tbody> </table>	Size(mm)			A	B	C	54.00	50.30	30.00
Size(mm)										
A	B	C								
54.00	50.30	30.00								

PIN Connection					
PIN	1	2	3	4	5
SINGLE	+Vin	-Vin	+Vout	NO PIN	-Vout
DUAL	+Vin	-Vin	+Vout	COM	-Vout