



Model	Input Voltage (V)	Output Voltage (V)	Output Current (A)	Output Power (W)	Efficiency (%)	MTTF ¹ (KHRS)
D050505XS-1W	5	5	3.3	100	70	1615
D050505XS-1W	5	5	5	100	70	1615
D050505XS-1W	5	5	9	100	80	669
D050505XS-1W	5	5	12	100	80	339
D050505XS-1W	5	5	15	100	80	187
D050505XS-1W	5	5	3.3	100	70	1615
D050505XS-1W	5	5	5	50	70	146
D050505XS-1W	5	5	5	100	70	1615
D050509XS-1W	5	5	9	100	80	669
D050512XS-1W	5	5	12	100	80	339

OUTPUT CHARACTERISTICS

Pa a	C	M .	T .	Ma .	U
Ra P	TA=-40°C 120°C			1	W
V a S P A a	S a				
L a	D050503X(\$D (H V V)		1.0	1.25	%%
	A a a (H V V)		1.0	1.20	%%
L a a 2	10% a a a ,33V			15	%
	10% a a a ,5V			15	%
	10% a a a ,9V			10	%
	10% a a a ,12V			10	%
	10% a a a ,15V			10	%
R a N	BW=DC 20MH ,A			75	V -

ISOLATION CHARACTERISTICS

Pa a	C	M .	T .	Ma .	U
I a a	Fa 1	1000			VDC
R a	V =500VDC	1			G

GENERAL CHARACTERISTICS

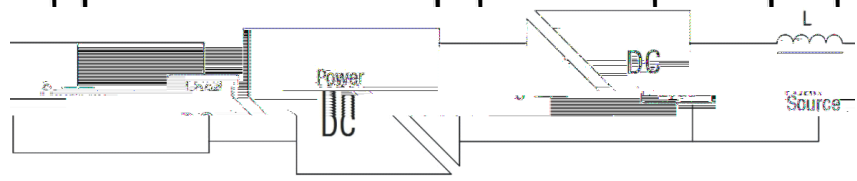
Pa a

TECHNICAL NOTES

The D-XS-1W and D-XD-1W series are DC/DC converters with 100% efficiency. The input voltage range is 12V to 24V. The output voltage is adjustable from 0V to 24V. The output current is 1A. The output ripple is less than 2%. The output voltage regulation is better than 0.1%. The output load regulation is better than 0.1%. The output transient response is better than 20%.

OUTPUT RIPPLE REDUCTION

To reduce the output ripple, a 10F capacitor (C2) should be connected to the output. The capacitor value should be greater than 10F. The capacitor value should be greater than 10F. The capacitor value should be greater than 10F.



OUTPUT RIPPLE REDUCTION

Component	Value	Notes
C1	10F	Output capacitor
C2	10F	Output capacitor
C3	100F	Output capacitor
R1	450Ω	Output resistor
R2	50Ω	Output resistor
T1	3T	Output transistor
RLOAD	R	Output load resistor

