

KDD20-9093

DC - DC CONVERTER
17W



SPECIFICATION

All Specifications Typical At Nominal Line, Full Load, 25°C Unless Otherwise Noticed

GENERAL

Characteristics	Conditions	min.	typ.	max.	unit
Switching frequency	Vi nom, Io nom		80		KHz
Isolation voltage	Input / Output	500			VDC
Isolation resistance	Input / Output, @ 500VDC	100			MΩ
Ambient temperature	Operating at Vi nom, Io nom	-30		+ 71	°C
Case temperature	Operating at Vi nom, Io nom			+ 90	°C
Storage temperature	Non operational	-40		+ 85	°C
Dimension	L54 x W74 x H22				mm
Cooling	Free air convection				
Case material	Metal				

INPUT SPECIFICATIONS

Characteristics	Conditions	min.	typ.	max.	unit
Input voltage range	Tamin ...Tamax, Io nom	18	48	72	VDC
No load input current	Vi nom, Io = 0		30		mA
Input voltage w/o damage	Io nom			75	VDC
Startup voltage	Io nom		16		VDC
Input filter	Pi type				

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OUTPUT SPECIFICATIONS

Characteristics	Conditions		min.	typ.	max.	unit
Output voltage accuracy	Vi nom, Io nom	Vo : 3.3V			± 5	%
		Vo : 5V			± 2	%
		Vo : 6.5V			± 5	%
Output voltage current	Vi nom	Vo : 3.3V			1500	mA
		Vo : 5V			500	mA
		Vo : 6.5V			1500	mA
Line regulation	Io nom, Vi min ...Vi max				± 1	%
Load regulation	Vi nom, Io 0 ...Io nom				± 2	%
Transient recovery time	25% load, step changed			500		μs
Temperature coefficient	Vi nom, Io nom				± 0.02	% / °C
Ripple & noise	Vi nom, Io nom, BW = 20MHz	Vo : 3.3V			65	mV
		Vo : 5V			75	mV
		Vo : 6.5V			80	mV
Efficiency	Vi nom, Io nom, Po / Pi		Up to 75%			

CONTROL AND PROTECTION

Input reversed	Shunt diode built in, external fuse recommended
Output short circuit	Continuous

PHYSICAL CHARACTERISTICS

CASE SIZE	54 x 74 x 22 mm 2.13 x 2.91 x 0.87 inches
CASE MATERIAL	Metal
WEIGHT	177 g