

PART NUMBER: PK10 series**DESCRIPTION:** dc-dc converter**features**

- industry standard pin out
- wide 2:1 input range
- fully isolated
- low ripple & noise
- over-current protection
- HI-POT tested
- constant switching frequency
- high efficiency
- compact size 1.85"x1.65"x0.35"
- 3 year warranty



model ¹ number	output power (max)	input voltage	output voltage (out 1/out 2)	output current (min)	output current (max)	ripple & noise ² mV P-P	efficiency (typ.)
PK10-D5-S3.3	5.3W	4.5-7.2VDC	3.3VDC	0A	1.6A	50	76%
PK10-D5-S5	8.0W	4.5-7.2VDC	5VDC	0A	1.6A	50	77%
PK10-D5-S12	8.4W	4.5-7.2VDC	12VDC	0A	0.7A	120	81%
PK10-D5-S15	9.0W	4.5-7.2VDC	15VDC	0A	0.6A	150	81%
PK10-D5-D12	8.4W	4.5-7.2VDC	±12VDC	0A	0.35A	120/120	80%
PK10-D5-D15	9.0W	4.5-7.2VDC	±15VDC	0A	0.3A	150/150	78%
PK10-D5-D512	9.3W	4.5-7.2VDC	5/12VDC	0A	0.9A/0.4A	75/120	78%
PK10-D5-D515	9.3W	4.5-7.2VDC	5/15VDC	0A	0.9A/0.32A	75/150	78%
PK10-D12-S3.3	6.6W	8-16.5VDC	3.3VDC	0A	2.0A	50	80%
PK10-D12-S5	10.0W	8-16.5VDC	5VDC	0A	2.0A	50	82%
PK10-D12-S12	10.8W	8-16.5VDC	12VDC	0A	0.7A	120	82%
PK10-D12-S15	10.5W	8-16.5VDC	15VDC	0A	0.6A	150	82%
PK10-D12-D12	10.8W	8-16.5VDC	±12VDC	0A	0.3A	120/120	83%
PK10-D12-D15	10.5W	8-16.5VDC	±15VDC	0A	0.35A	150/150	85%
PK10-D12-D512	9.3W	8-16.5VDC	5/12VDC	0A	0.9A/0.4A	75/120	72%
PK10-D12-D515	9.3W	8-16.5VDC	5/15VDC	0A	0.9A/0.32A	75/150	72%
PK10-D24-S3.3	6.6W	18-32VDC	3.3VDC	0A	2.0A	50	80%
PK10-D24-S5	10.0W	18-32VDC	5VDC	0A	2.0A	50	82%
PK10-D24-S12	10.8W	18-32VDC	12VDC	0A	0.7A	120	84%
PK10-D24-S15	10.5W	18-32VDC	15VDC	0A	0.6A	150	85%
PK10-D24-D12	10.8W	18-32VDC	±12VDC	0A	0.3A	120/120	82%
PK10-D24-D15	10.5W	18-32VDC	±15VDC	0A	0.35A	150/150	83%
PK10-D24-D512	9.3W	18-32VDC	5/12VDC	0A	0.9A/0.4A	75/120	74%
PK10-D24-D515	9.3W	18-32VDC	5/15VDC	0A	0.9A/0.32A	75/150	73%
PK10-D48-S3.3	6.6W	32-63VDC	3.3VDC	0A	2.0A	50	80%
PK10-D48-S5	10.0W	32-63VDC	5VDC	0A	2.0A	50	83%
PK10-D48-S12	10.8W	32-63VDC	12VDC	0A	0.7A	120	83%
PK10-D48-S15	10.5W	32-63VDC	15VDC	0A	0.6A	150	82%
PK10-D48-D12	10.8W	32-63VDC	±12VDC	0A	0.35A	120/120	82%
PK10-D48-D15	10.5W	32-63VDC	±15VDC	0A	0.3A	150/150	83%
PK10-D48-D512	9.3W	32-63VDC	5/12VDC	0A	0.9A/0.4A	75/120	75%
PK10-D48-D515	9.3W	32-63VDC	5/15VDC	0A	0.9A/0.32A	75/150	75%

NOTE: 1. All models (excluding the 5 V dc input, D5) are also available in an extended temperature range of -40°C~85°C. For these models, append "M" to the model number, e.g. PK10-D12-S3.3M.

2. Ripple & noise measured with a 20MHz bandwidth, off a 10uF electrolytic and a 0.1uF ceramic cap in parallel at the output.

**PART NUMBER:** PK10 series**DESCRIPTION:** dc-dc converter**INPUT**

parameter	conditions/description	min	nom	max	units
input voltage range		4.5	5	7.2	VDC
		8	12	16.5	VDC
		18	24	32	VDC
		32	48	63	VDC
switching frequency	constant		300		KHz

OUTPUT

parameter	conditions/description	min	nom	max	units
set point accuracy		-2%		+2%	
line regulation	all models	-0.5%		+0.5%	
load regulation	single output models	-1.0%		+1.0%	
	dual output models (10% min. load)	-2.5%		+2.5%	
minimum load		0.0			Amps
ripple and noise	20 MHz bandwidth			1.0% Vout	mVpp

PROTECTION

parameter	conditions/description	min	nom	max	units
over-current	continuous auto recovery ³	105%		135%	
over-voltage	internally zener clamped ³	110%		140%	

NOTE: 3 continuous operation in a protected state may compromise long-term reliability.

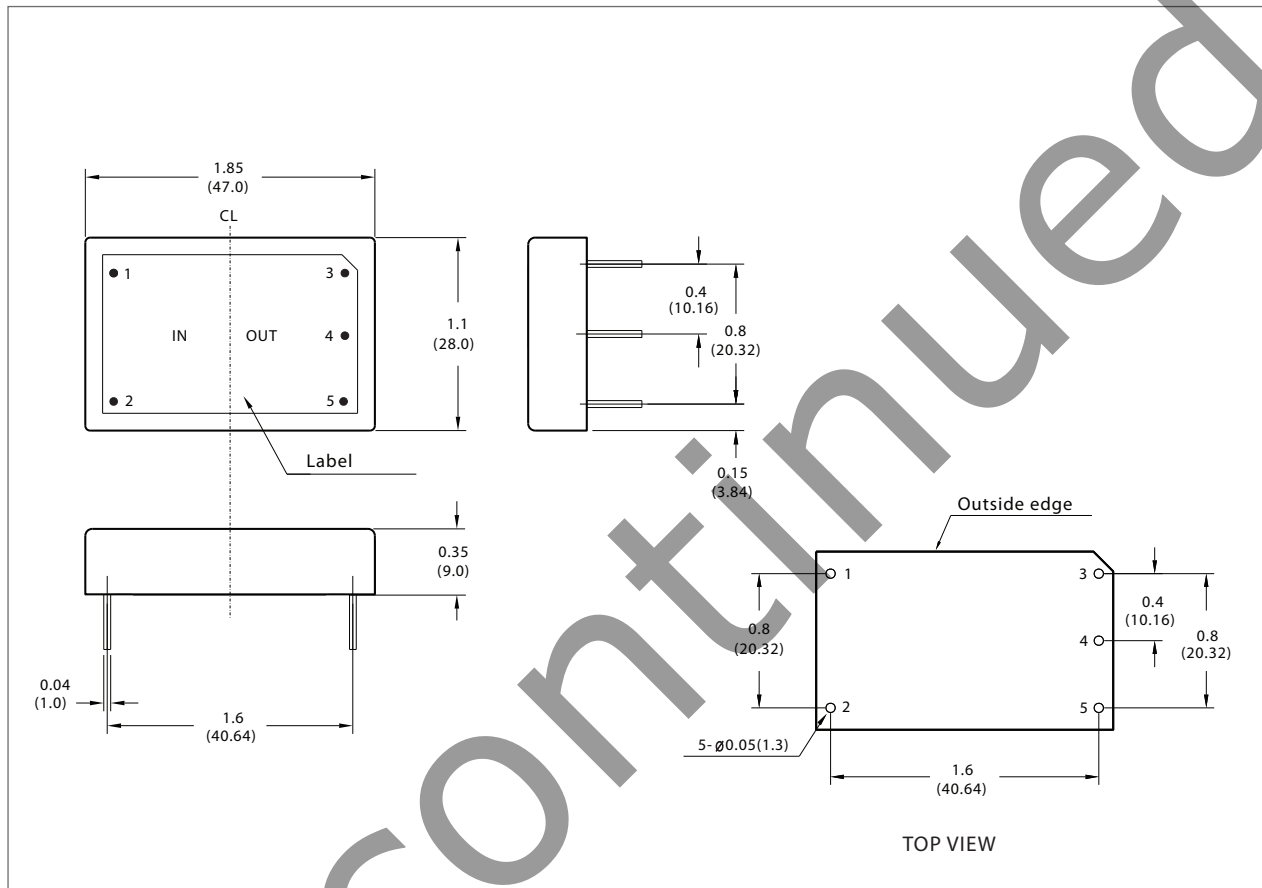
GENERAL

parameter	conditions/description	min	nom	max	units
efficiency	typical at full load	70%		85%	
dielectric withstand	input/case, input/output, output/case	500			VAC
insulation resistance	at 500 VDC	100M			Ohms
agency standards	approved to UL1950, EN60950, CISPR22, CE				
case material			STS		
material flammability			94 V-0		
weight			34		grams
			(1.24)		(ounces)
MTBF	MIL-HDBK-217F		480k		hours
operating temperature	regular models	-20		+71	°C
	extended temperature models	-40		+85	°C
storage temperature		-40		+105	°C
humidity	operating (non-condensing)	20%		90%	RH
washability	not intended for aqueous wash				

PART NUMBER: PK10 series

DESCRIPTION: dc-dc converter

DIMENSIONS (mm)



PIN CONNECTIONS

Single Output	Dual Output
1. +Vin	1. +Vin
2. -Vin	2. -Vin
3. +Vout	3. Output 1
4. No pin	4. Com
5. -Vout	5. Output 2