

Key Features

- Industry standard pin out
- Wide 4 : 1 input range
- Fully isolated
- Over-current protection
- Over-voltage protection
- Six-sided EMI shielding
- Constant switching frequency
- High efficiency
- Compact size 2.0" x 1.0" x 0.4"
- 3 year warranty



Model Configurations

Output Power (Max.)	Input Voltage	Output Voltage	Output Current (Min.)	Output Current (Max.)	Efficiency (Typ.)	Line Reg.	Load Reg.	Model Number ¹
7.9W	10-36V	3.3V	0A	2.4A	78%	±0.5%	±1.0%	PTK10-Q24-S3
10.0W	10-36V	5V	0A	2.0A	80%	±0.5%	±1.0%	PTK10-Q24-S5
10.8W	10-36V	12V	0A	0.9A	80%	±0.5%	±1.0%	PTK10-Q24-S12
10.5W	10-36V	15V	0A	0.7A	80%	±0.5%	±1.0%	PTK10-Q24-S15
10.0W	10-36V	±5V	0A	1.0A	80%	±1.0%	±2.5%	PTK10-Q24-D5
10.8W	10-36V	±12V	0A	0.45A	81%	±1.0%	±2.5%	PTK10-Q24-D12
10.5W	10-36V	±15V	0A	0.35A	81%	±1.0%	±2.5%	PTK10-Q24-D15
7.9W	20-72V	3.3V	0A	2.4A	79%	±0.5%	±1.0%	PTK10-Q48-S3
10.0W	20-72V	5V	0A	2.0A	82%	±0.5%	±1.0%	PTK10-Q48-S5
10.8W	20-72V	12V	0A	0.9A	83%	±0.5%	±1.0%	PTK10-Q48-S12
10.5W	20-72V	15V	0A	0.7A	83%	±0.5%	±1.0%	PTK10-Q48-S15
10.0W	20-72V	±5V	0A	1.0A	81%	±1.0%	±2.5%	PTK10-Q48-D5
10.8W	20-72V	±12V	0A	0.45A	83%	±1.0%	±2.5%	PTK10-Q48-D12
10.5W	20-72V	±15V	0A	0.35A	83%	±1.0%	±2.5%	PTK10-Q48-D15

Note 1. All models are also available in an extended temperature range of -40° ~ 85°C. For these models, append "M" to the model number, e.g. PTK10-Q48-5M.

Input

Parameter	Conditions/Description	Min	Nom	Max	Units
Input voltage range		10	24	36	VDC
		20	48	72	VDC
Switching frequency	Constant		300		KHz

Output

Parameter	Conditions/Description	Min	Nom	Max	Units
Set point accuracy		-2%		+2%	
Line regulation (Low line to high line)	Single output models	-0.5%		+0.5%	
	Dual output models	-1.0%		+1.0%	
Load regulation	Single output models	-1.0%		+1.0%	
	Dual output models, 10% minimum load	-2.5%		+2.5%	
Minimum load		0.0			Amps
Ripple & noise	20 MHz bandwidth			1.0%Vout	mVpp

Protection

Parameter	Conditions/Description	Min	Nom	Max	Units
Over-current	Continuous auto recovery ²	105%		135%	
Over-voltage	Internally zener clamped ²	110%		140%	

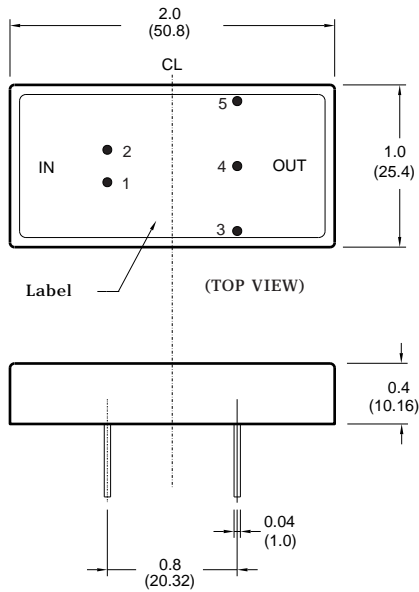
Note 2. Continuous operation in a protected state may compromise long-term reliability.

General

Parameter	Conditions/Description	Min	Nom	Max	Units
Efficiency	Typical at full load	78%		83%	
Dielectric withstand	Input/case, Input/output, Output/case	500			VAC
Insulation resistance	at 500 VDC	100M			Ohms
Agency standards	Designed to meet, UL1950, EN60950, CISPR22, CE				
Case material			Zn		
Material flammability			94 V-0		
Weight			40		grams
			1.41		ounces
MTBF	MIL-HDBK-217F		580k		hours
Operating temperature	Regular models	-20		+71	°C
	Extended temperature models	-40		+85	°C
Storage temperature		-40		+105	°C
Humidity	Operating (non-condensing)	5%		95%	RH

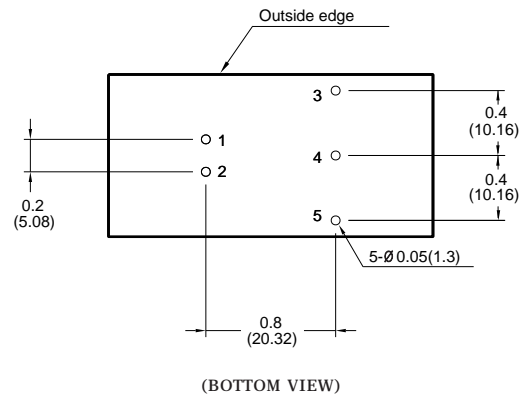
Dimensions

All dimensions are in inches and (mm).



Pin assignments

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



PIN Definitions

+Vin:	Input positive terminal
-Vin:	Input negative terminal
CNT:	Remote On/Off control of output voltage. Referenced to -Vin
+Vout:	Main output positive terminal
-Vout:	Output negative terminal
+Vaux:	Positive auxiliary output
-Vaux:	Negative auxiliary output
Com:	Common node for dual- or triple-output models
Trim:	For trimming output voltage on single- or dual-output models