

### Features:

- \* 7Pin SIP Package
- \* +/- 10% Range Input Voltage
- \* Efficiency up to 81%
- \* Un-Regulated Output
- \* 3000VDC Isolation Voltage
- \* Case Material: Non-Conductive Black Plastic (Meet UL94V-0)
- \* Operation Temp. -40~85°C
- \* 3 year warranty



### Applications:

- Automatic Control System
- Communication System
- Distribute Power System
- Industry Computer

### Rating Chart:

MODEL NO.	Input Voltage	Output Voltage	Output Current		Load Regulation	Typ. Efficiency	Capacitive Load
	(VDC)	(VDC)	Min.(mA)	Max. (mA)	Max. (%)	(%)	Max. uF
ACA01K-101	4.5~5.5 VDC (Nominal: 5V)	3.3	6.1	303	10	74	220
ACA01K-102		5	4	200	10	78	220
ACA01K-105		12	1.7	84	7	79	220
ACA01K-106		15	1.3	67	7	79	220
ACA01K--202		±5	1	100	10	73	100
ACA01K--205		±12	0.8	42	7	80	100
ACA01K--206		±15	0.7	33	7	80	100
ACB01K-101	10.8~13.2 VDC (Nominal: 12V)	3.3	6.1	303	8	76	220
ACB01K-102		5	4	200	8	79	220
ACB01K-105		12	1.7	84	6	80	220
ACB01K-106		15	1.3	67	6	80	220
ACB01K-202		±5	1	100	8	75	100
ACB01K-205		±12	0.8	42	6	81	100
ACB01K-206		±15	0.7	33	6	81	100
ACC01K-101	21.6~26.4 VDC (Nominal: 24V)	3.3	6.1	303	7	73	220
ACC01K-102		5	4	200	7	77	220
ACC01K-105		12	1.7	84	5	77	220
ACC01K-106		15	1.3	67	5	78	220
ACC01K-202		±5	1	100	7	73	100
ACC01K-205		±12	0.8	42	5	79	100
ACC01K-206		±15	0.7	33	5	79	100

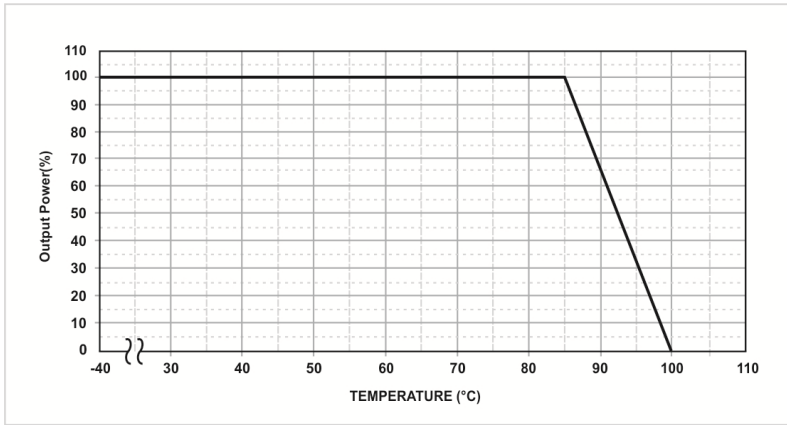
## Electrical Characteristics:

Symbol	Characteristic	Condition	Min.	Typ.	Max.	Unit
Vin	Input Voltage for ACA01K		4.5	5	5.5	VDC
	Input Voltage for ACB01K		10.8	12	13.2	VDC
	Input Voltage for ACC01K		21.6	24	26.4	VDC
Fs	Switching Frequency			80		kHz
Po	Output Power Range	See Rating Chart		1		W
Acc	Output Voltage Accuracy	Io=Full load, Vin=Typ.,@25°C		±1	±3.0	%
n	Efficiency Full Load, Vin= Nominal	Detail to see Rating Chart				
△Voi	Line Regulation	Full Load, Vin=Vmax to Vmin @25°C		±1.2	±1.5	%
△VoL	Load Regulation	Io=10% to 100% Vin= Typ.,@25°C	See Rating Chart			
Vp-p	Ripple & Noise (Peak to Peak)	20MHz		75	100	mV
Tc	Temperature Coefficient	All output		±0.01	±0.02	%/°C
Vio	Dielectric With Standing Voltage for input to output	Input to output	3000			VDC
Ris	Isolation Resistance	Input to output	10G			ohm
	Isolation Capacitance	Input to output			120	pF

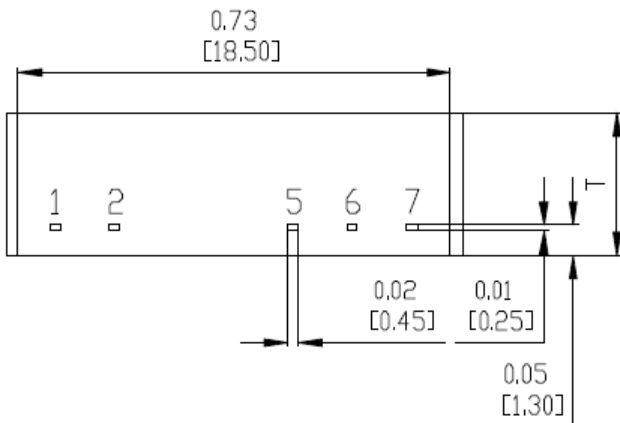
## Environmental:

Symbol	Characteristic	Condition	Min.	Typ.	Max.	Unit
To	Operating Temperature	Detail to see Fig.1	-40		85	°C
Ts	Storage Temperature	10 ~ 95% RH	-40		125	°C
	Max case Temperature		-40		90	°C
Ho	Operating Humidity	non-condensing			95%	RH
MTBF	Mean Time Between Failure	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F		2M		Hrs
EP	Potting Material is Epoxy which is flammability to UL94V-0					
Cooling	Natural Convection					

### DERATING CURVE :

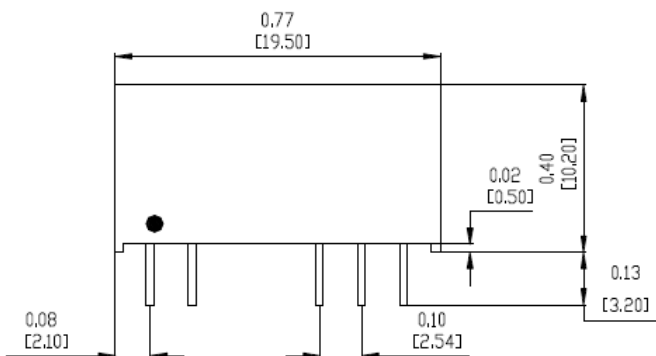


### MECHANICAL DIMENSIONS : < UNIT: inch [mm] >



Pin No.	Single Output	Dual Output
1	+ Vin	+ Vin
2	-Vin	-Vin
5	-Vout	-Vout
6	No Pin	Common
7	+Vout	+Vout

Note: T: 0.24[6.1] for ACA01K-XXX & ACB01K-XXX  
 0.28[7.1] for ACC01K-XXX



Tolerance:	inches	mm
	X ±0.01	X ±0.25
	.XX ±0.01	XX ±0.25
Pin	±0.004	± 0.1
Pin Pitch	±0.01	±0.25