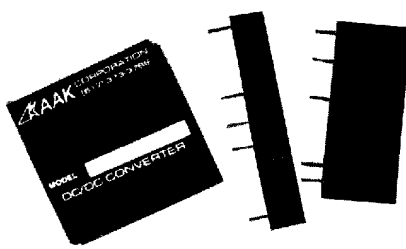


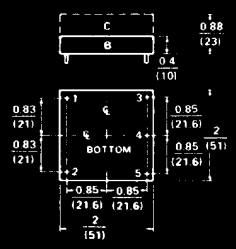
## U SERIES, UNREGULATED

The U Series mini-high powered single and dual output DC/DC converters deliver unregulated outputs. A Pi-input ferrite filter is used to reduce input reflected ripple and output noise current to below 2mA. Efficiency up to 85% is achieved and all outputs are short circuit protected. High Input-to-Output isolation is provided, yet a low cost is maintained on all models.

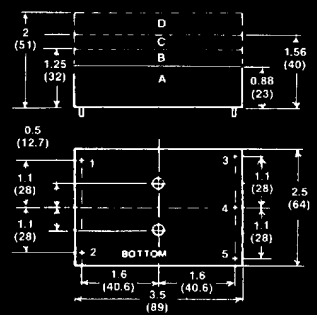


INPUT VOLT 10%	OUTPUT		CASE	MODEL	PRICING	
	VOLT (Vdc)	CURR. (mA)			1-9	10-Up
<b>SINGLE OUTPUT (U) UNREGULATED</b>						
5Vdc input reduce all output currents by 20%						
5 to 28	5	1000	9A	U*S51	84.00	76.00
		1500	9A	U*S51.5	98.00	88.00
	12	300	8B	U*S12.3	69.00	62.00
		500	8C	U*S12.5	85.00	77.00
		800	8C	U*S12.8	99.00	89.00
		1500	9A	U*S121.5	109.00	98.00
	15	250	8B	U*S15.25	69.00	62.00
		450	8C	U*S15.45	86.00	77.00
		750	8C	U*S15.75	100.00	90.00
		1000	9A	U*S15.1	110.00	99.00
	24	200	8B	U*S24.2	69.00	62.00
		400	8C	U*S24.4	87.00	78.00
600		8C	U*S24.6	101.00	91.00	
800		9A	U*S24.8	111.00	100.00	
28	100	8B	U*S28.1	69.00	62.00	
	200	8C	U*S28.2	88.00	79.00	
	400	9A	U*S28.4	102.00	92.00	
	600	9B	U*S28.6	112.00	101.00	
<b>DUAL OUTPUT</b>						
6 to 28	± 5	450	8C	U*D5.45	79.00	71.00
		850	9A	U*D5.85	99.00	89.00
		1000	9B	U*D5.1	119.00	107.00
6 to 28	± 12	350	8C	U*D12.35	79.00	71.00
		750	9A	U*D12.75	99.00	89.00
		900	9B	U*D12.9	119.00	107.00
6 to 28	± 15	300	8C	U*D15.3	79.00	71.00
		600	9A	U*D15.6	99.00	89.00
		800	9B	U*D15.8	119.00	107.00
<b>TRIPLE OUTPUT</b>						
6 to 28	VOLT/CURR		9C	U*T12.12-.5	125.00	113.00
	5/500	± 12/120				
	5/1000	± 12/250				
6 to 28	VOLT/CURR		9D	U*T12.25-1	125.00	139.00
	5/1500	± 12/350				
6 to 28	VOLT/CURR		9D	U*T12.35-1.5	134.00	149.00
	5/1500	± 12/350				

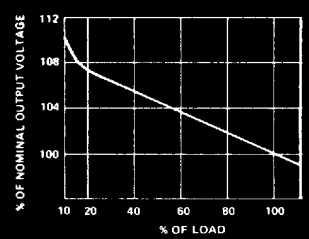
\*Insert Input Voltage from 5Vdc to 28 Vdc  
For Chassis Mount version of U Series add C before U and add \$3.50 to unit price.



**CASE 8**



**CASE 9**

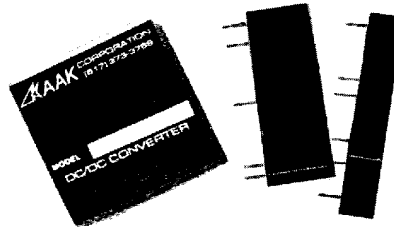


## SPECIFICATIONS

PARAMETER	LIMIT
Input Voltage Tolerance	±10%
Output Ripple and Noise (PAR)	28mV rms
Line Regulation	1% Vin
Load Regulation	See Load Curve
Input Reflected Ripple	1% Ein (max)
Output Voltage Tolerance	±4%
In/Output Isolation	10 meg Ω
Temp. Coefficient	0.5%/°C
Short Circuit Prot.	Curr. Limit
Input Operating Voltage Range	4.75-5.25V 10.8-13.2V
Operating Temp. Range	0 to 71°C
Storage Temp. Range	-55°C - +85°C
Efficiency	80-85%

**R, SERIES, REGULATED**

The R Series high regulation, low noise DC/DC converters feature 65-75% efficiency, Pi-input filter to reduce input reflected ripple. A 5-sided electrostatic shielded case option is available for noise-sensitivity circuitry. Tantalum capacitors and large internal heat sinks insure operation in high temperature ranges.



**CONNECTIONS**

Pin	Single Output
1	+V in
2	-V in
3	+V out
4	N.C.
5	-V out

Pin	Dual Output
1	+V in
2	-V in
3	+V out
4	Common
5	-V out

INPUT VOLT 10%	OUTPUT VOLT (Vdc)	CURR. (mA)	CASE	MODEL	PRICING	
					1-9	10-Up

**SINGLE OUTPUT (R) REGULATED**

5Vdc input reduce all output currents by 20%

5V to 28	5	250	8B	R*S5.25	\$ 79.00	\$ 71.00
		500	8C	R*S5.5	89.00	80.00
		1000	9A	R*S51	109.00	98.00
	12	300	8B	R*S12.3	79.00	71.00
		500	8C	R*S12.5	94.00	85.00
		800	9A	R*S12.8	109.00	98.00
		1000	9B	R*S121	119.00	107.00
	15	250	8B	R*S15.25	79.00	71.00
		450	8C	R*S15.45	94.00	85.00
		750	9A	R*S15.75	109.00	98.00
		900	9B	R*S15.9	119.00	107.00
	24	200	8B	R*S24.2	79.00	71.00
400		9C	R*S24.4	94.00	85.00	
600		9A	R*S24.6	109.00	98.00	
28	100	8B	R*S28.1	79.00	71.00	
	200	8C	R*S28.2	94.00	85.00	
	400	9A	R*S28.4	109.00	98.00	
	600	9B	R*S28.6	112.00	101.00	

**DUAL OUTPUT**

6 to 28	± 5	250	8C	R*D5.25	79.00	71.00
		500	8C	R*D5.5	89.00	80.00
		750	9A	R*D5.75	99.00	89.00
± 12	150	8B	R*D12.15	89.00	80.00	
	250	8C	R*D12.25	109.00	98.00	
	500	9A	R*D12.5	125.00	113.00	
± 15	120	8B	R*D15.12	89.00	80.00	
	220	8C	R*D15.22	109.00	89.00	
	450	9A	R*D15.45	125.00	113.00	

**TRIPLE OUTPUT**

VOLT/CURR	VOLT/CURR	CASE	MODEL	PRICING		
				1-9	10-Up	
6 to 28	5/300	± 12/100	9B	R*T12.1-.3	139.00	125.00
	5/500	± 12/200	9C	R*T12.2-.5	149.00	134.00
	5/900	± 12/300	9D	R*T12.3-.9	165.00	149.00

**NOTES:**

- Five Pins, 0.040 (1.0) Dia x 0.20 (5.1) Lg. Min.
- Two Mounting Inserts No. 4-40 x 0.10 (2.5) Dp Min.
- All Dimensions are in inches and (mm).

**SPECIFICATIONS**

PARAMETER	LIMIT
Input Voltage Tolerance	±10%
Output Ripple & Noise (PARD)	1mV rms
Line Regulation	.05%
Load Regulation	.1%
Input Reflected Ripple	1% Ein (max)
Output Voltage Tolerance	±1% (fixed)
In/Output Isolation	400 VDC
Temp. Coefficient	0.02%/°C
Short Circuit Prot.	All Units
Input Operating Voltage Range	4.5-5.5 10.8-13.2
Operating Temp. Range	-25°C - 71°C
Storage Temp. Range	-55°C - 85°C
Efficiency	65-75%

\*Insert Input Voltage from 5 Vdc to 28 Vdc  
For Chassis Mount version of R Series add C before R and add \$3.50 to unit price.