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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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VAA5

1 2 3

Series name
Output wattage
Output voltage



	MODEL		VAA505	VAA512
MAX OUTPUT WATTAGE[W]			5.0	5.4
	DC OUTPUT	VOLTAGE[V]	5	12
		CURRENT[A]	1.0	0.45

SPECIFICATIONS

c**FL**°us

RoHS

	MODEL		VAA505	VAA512
	VOLTAGE[V]		AC85 - 132 1 φ or DC110 - 170	
	CURRENT[A] *1		0.13typ (ACIN 100V, Io=100%)	
	EFFICIENCY[%] *1		75typ	77typ
INPUT	FREQUENCY[Hz]		47 - 440 or DC	
	INRUSH CURRENT[A] *1		15typ (ACIN 100V, lo=100%)	
	LEAKAGE CURRENT[mA]		0.5max (60Hz According to UL and DEN-AN)	
	VOLTAGE[V]		5	12
	CURRENT[A]		1.0	0.45
	LINE REGULATION[mV]		20max	48max
	LOAD REGULATIC	N[mV]	40max	100max
	RIPPI F[m\/n-n]	0 to +55℃ *2	80max	120max
	IIIFFEE[IIIvp-p]	-10 - 0℃ *2	140max	160max
	RIPPI E NOISE[mVn-n]	0 to +55℃ *2	120max	150max
OULLOI		-10 - 0℃ *2	160max	180max
	TEMPERATURE COEFFICIENT[mV]	-10 to +55℃	50max	120max
	DRIFT[mV]	*3	20max	48max
	OUTPUT VOLTAGE ADJUSTMENT RANGE		Fixed	
	START-UP TIME[ms]		200max (ACIN 85V, Io=100%)	
	HOLD-UP TIME[ms]		10typ (ACIN 85V, Io=100%), 20typ (ACIN 100V, Io=100%)	
	OUTPUT VOLTAGE SETTING[V] *1		4.90 - 5.30	11.40 - 12.60
PROTECTION	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically	
CIRCUIT	OVERVOLTAGE PROTECTION		Works over 115% of rating (by zener diode clamping)	
	INPUT-OUTPUT		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)	
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)	
	OUTPUT-FG		AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At Room Temperature)	
	OPERATING TEMP.;HUMID.AND ALTITUDE		-10 to +70°C, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max	
ENVIRONMENT	STORAGE TEMP.,HUMID.AND ALTITUDE		-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max	
	VIBRATION		19.6m/s ² 10 - 55Hz, 3minutes period, 60minutes each along X, Y and Z axis (Non operating)	
	IMPACT		196.1m/s ² 11ms, once each X, Y and Z axis (Non operating)	
SAFETY AND	AGENCY APPROVALS		UL60950-1, C-UL Complies with DEN-AN (External Fuse is required)	
REGULATIONS			Complies with FCC-B, additional capacitors required for meeting VCCI class B	
OTHERS	CASE SIZE/WEIGHT		32 x 18 x 65mm [1.26 x 0.71 x 2.56 inches] (W x H x D) / 30g max	
0.1112110	COOLING METHOD		Convection	

*1 Rated input/output Ta=25[°]C
*2 This is the value that measured on measuring board with capacitor of 22 µ F. Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM101).
*3 Drift is the charge in DC output for an eight hour period after a half-hour warm-up at 25[°]C, with the input voltage held constant at the rated input/output.



External view



Performance data

STATIC CHARACTERISTICS (VAA512)



OVERCURRENT CHARACTERISTICS (VAA512)



RISE TIME & FALL TIME (VAA512)



DERATING CURVE



AC-DC Power Supplies PCB Mount Type COSEL

VAA10

Ordering information

VAA 10 05

1 2 3

Series name
Output wattage
Output voltage



MODEL		VAA1005	VAA1012
MAX OUTPUT WATTAGE[W]		10.0	10.8
DC OUTPUT	VOLTAGE[V]	5	12
	CURRENT[A]	2.0	0.9

SPECIFICATIONS

c**FL**°us

RoHS

	MODEL		VAA1005	VAA1012
	VOLTAGEIV1		AC85 - 132 1 φ or DC110 - 170	
	CURRENT[A] *1		10.3typ (ACIN 100V, Io=100%)	
	EFFICIENCY[%] *1		76typ	77typ
INPUT	FREQUENCY[Hz]		47 - 440 or DC	
	INRUSH CURRENT[A] *1		15typ (ACIN 100V, lo=100%)	
	LEAKAGE CURRENT[mA]		0.5max (60Hz According to UL and DEN-AN)	
	VOLTAGE[V]		5	12
	CURRENT[A]		2.0	0.9
	LINE REGULATION[mV]		20max	48max
	LOAD REGULATIC	N[mV]	40max	100max
		0 to +55℃ *2	80max	120max
	пеессинир-рј	-10 - 0℃ *2	140max	160max
		0 to +55℃ *2	120max	150max
OUTFOI		-10 - 0℃ *2	160max	180max
	TEMPERATURE COEFFICIENT[mV]	-10 to +55℃	50max	120max
	DRIFT[mV]	*3	20max	48max
	OUTPUT VOLTAGE ADJUSTMENT RANGE		Fixed	
	START-UP TIME[ms]		200max (ACIN 85V, Io=100%)	
	HOLD-UP TIME[ms]		10typ (ACIN 85V, Io=100%), 20typ (ACIN 100V, Io=100%)	
	OUTPUT VOLTAGE SETTING[V] *1		4.90 - 5.30	11.40 - 12.60
PROTECTION	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically	
CIRCUIT	OVERVOLTAGE PROTECTION		Works over 115% of rating (by zener diode clamping)	
	INPUT-OUTPUT		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)	
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)	
	OUTPUT-FG		AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At Room Temperature)	
	OPERATING TEMP.,HUMID.AND ALTITUDE		-10 to +70°C, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max	
ENVIRONMENT	STORAGE TEMP., HUMID.AND ALTITUDE		-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max	
	VIBRATION		19.6m/s ² 10 - 55Hz, 3minutes period, 60minutes each along X, Y and Z axis (Non operating)	
	IMPACT		196.1m/s ² 11ms, once each X, Y and Z axis (Non operating)	
SAFETY AND	AGENCY APPROVALS		UL60950-1, C-UL Complies with DEN-AN (External Fuse is required)	
REGULATIONS	CONDUCTED NOISE		Complies with FCC-B, additional capacitors required for meeting VCCI class B	
OTHERS	CASE SIZE/WEIGHT		32×18×72.5mm [1.26×0.71×2.85 inches] (W×H×D) / 35g max	
CHILING	COOLING METHOD		Convection	

*1 Rated input/output Ta=25[°]C
*2 This is the value that measured on measuring board with capacitor of 22 µ F. Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM101).
*3 Drift is the charge in DC output for an eight hour period after a half-hour warm-up at 25[°]C, with the input voltage held constant at the rated input/output.



External view



Performance data

STATIC CHARACTERISTICS (VAA1012)



OVERCURRENT CHARACTERISTICS (VAA1012)



RISE TIME & FALL TIME (VAA1012)



DERATING CURVE

