

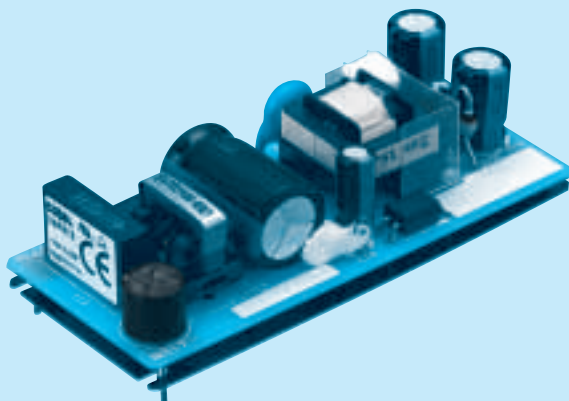
VAF5

VAF 5 05

① ② ③



RoHS



① Series name
② Output wattage
③ Output voltage

MODEL	VAF503	VAF505	VAF512	VAF515	VAF524
MAX OUTPUT WATTAGE[W]	3.3	5.0	5.4	5.25	5.28
DC OUTPUT	VOLTAGE[V]	3.3	5	12	15
	CURRENT[A]	1.0 (Peak 1.2)	1.0 (Peak 1.2)	0.45 (Peak 0.54)	0.35 (Peak 0.42)
				0.22 (Peak 0.27)	

SPECIFICATIONS

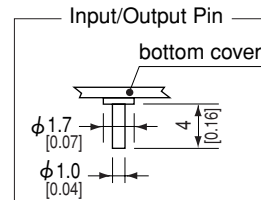
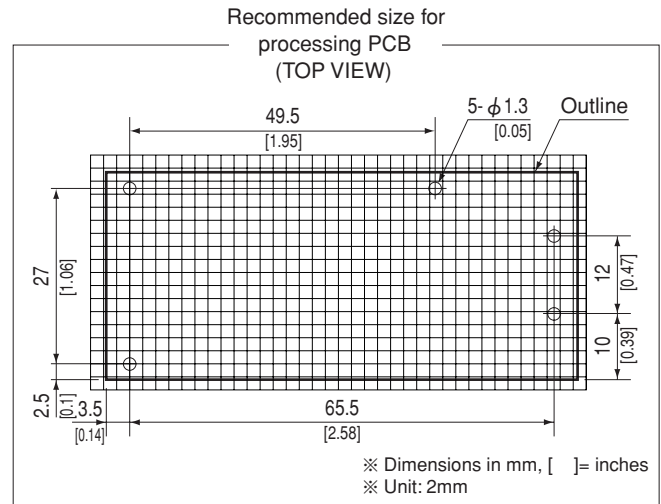
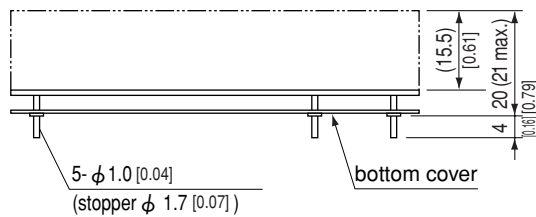
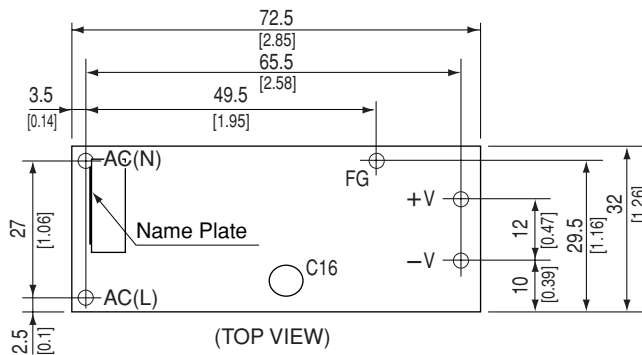
	MODEL	VAF503	VAF505	VAF512	VAF515	VAF524
INPUT	VOLTAGE[V]	AC85 - 264 1 ϕ or DC110 - 370				
	CURRENT[A]	ACIN 100V	0.15typ (Io=100%)			
		ACIN 200V	0.10typ (Io=100%)			
	FREQUENCY[Hz]	47 - 440 or DC				
	INRUSH CURRENT[A]	ACIN 100V	15typ (Io=100%)			
		ACIN 200V	30typ (Io=100%)			
OUTPUT	LEAKAGE CURRENT[ma]	0.5max (60Hz, According to IEC60950 and DEN-AN)				
	EFFICIENCY[%]	68typ	77typ	78typ	78typ	81typ
	VOLTAGE[V]	3.3	5	12	15	24
	CURRENT[A]	*1 1.0 (Peak 1.2)	1.0 (Peak 1.2)	0.45 (Peak 0.54)	0.35 (Peak 0.42)	0.22 (Peak 0.27)
	LINE REGULATION[mV]	20max	20max	48max	60max	96max
	LOAD REGULATION[mV]	40max	40max	100max	120max	150max
	RIPPLE[mVp-p]	0 to +55°C *2	80max	80max	120max	120max
		-10 - 0°C *2	140max	140max	160max	160max
		Io=100 - 120% *2	180max	180max	200max	200max
	RIPPLE NOISE[mVp-p]	0 to +55°C *2	120max	120max	150max	150max
		-10 - 0°C *2	160max	160max	180max	180max
		Io=100 - 120% *2	200max	200max	220max	220max
	TEMPERATURE COEFFICIENT[mV]	-10 to +55°C	100max	50max	120max	150max
	DRIFT[mV]	*3 20max	20max	48max	60max	96max
	OUTPUT VOLTAGE SETTING[V]	3.19 - 3.47	4.90 - 5.30	11.40 - 12.60	14.25 - 15.75	23.0 - 25.0
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed				
	START-UP TIME[ms]	700max (ACIN 85V, Io=100%)				
	HOLD-UP TIME[ms]	10typ (ACIN 85V, Io=100%), 20typ (ACIN 100V, Io=100%)				
PROTECTION CIRCUIT	OVERCURRENT PROTECTION	Works over 125% of rating and recovers automatically				
	OVERVOLTAGE PROTECTION	Works over 115% of rating (By zener diode clamping)				
ISOLATION	INPUT-OUTPUT	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)				
	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)				
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-10 to +71°C, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max				
	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 NOISE REGULATIONS	AGENCY APPROVALS	UL60950-1, C-UL, EN60950-1, EN50178 Complies with DEN-AN and IEC60950-1				
	CONDUCTED NOISE	Complies with FCC-B, VCCI-B, CISPR22-B, EN55022-B				
OTHERS	CASE SIZE/WEIGHT	32X20X72.5mm [1.26X0.79X2.85 inches] (WxHxD) / 30g max				
	COOLING METHOD	Convection				

*1 Peak load for 10sec. or less in acceptable if the total wattage is less than the rated wattage.

*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 change 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.

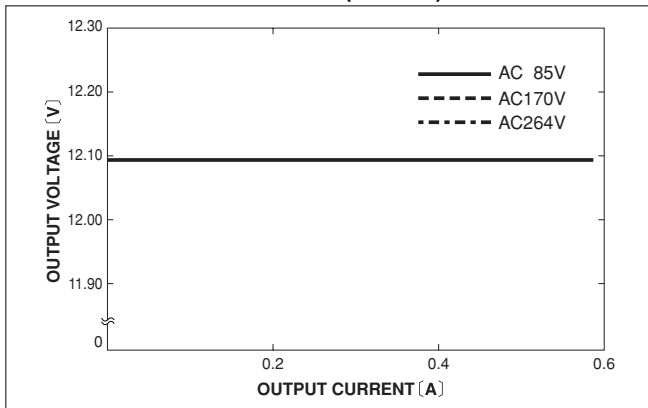
External view



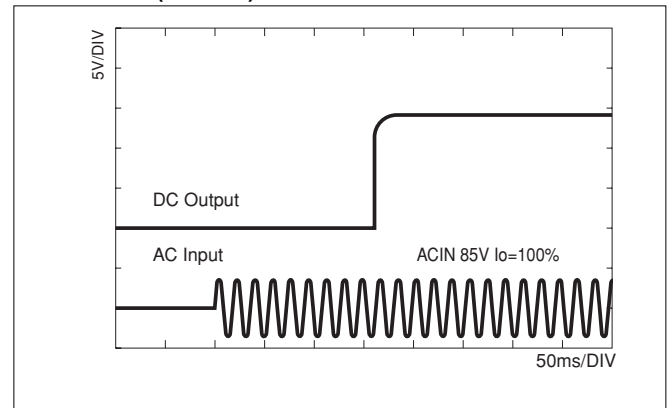
- ※Weight: 30g max
- ※Tolerance: ± 0.5 [± 0.02]
- ※PCB material: CEM-3
- ※PCB thickness: $t=1.0$ [0.04]
- ※Pin material: CPW with solder plated
- ※Recommended hole dia. to PCB: ϕ 1.3
- ※Dimensions in mm, []= inches

Performance data

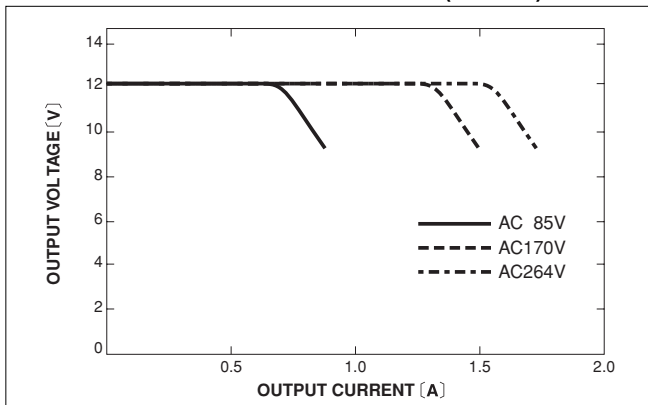
■ STATIC CHARACTERISTICS (VAF512)



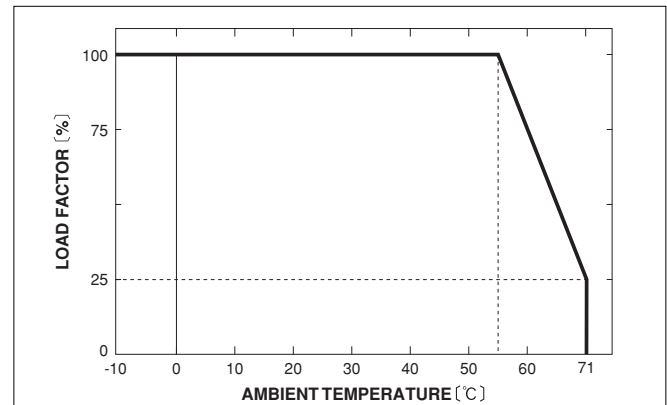
■ RISE TIME (VAF512)



■ OVERCURRENT CHARACTERISTICS (VAF512)



■ DERATING CURVE



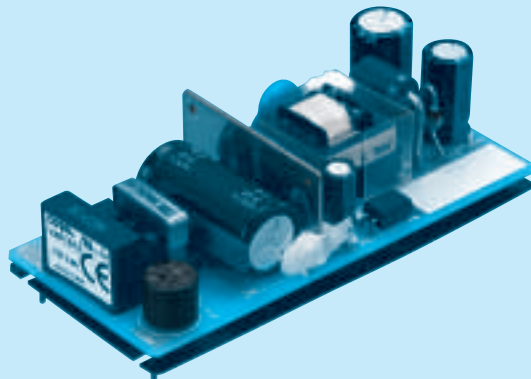
VAF10

VAF 10 05

① ② ③



RoHS



① Series name
② Output wattage
③ Output voltage

MODEL	VAF1003	VAF1005	VAF1012	VAF1015	VAF1024
MAX OUTPUT WATTAGE[W]	6.6	10.0	10.8	10.5	10.8
DC OUTPUT	VOLTAGE[V]	3.3	5	12	15
	CURRENT[A]	2.0 (Peak 2.4)	2.0 (Peak 2.4)	0.9 (Peak 1.08)	0.7 (Peak 0.84)
				0.7 (Peak 0.84)	0.45 (Peak 0.54)

SPECIFICATIONS

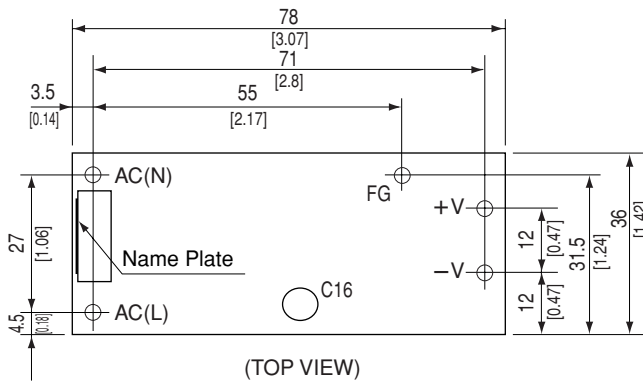
	MODEL	VAF1003	VAF1005	VAF1012	VAF1015	VAF1024
INPUT	VOLTAGE[V]	AC85 - 264 1 ϕ or DC110 - 370				
	CURRENT[A]	ACIN 100V	0.3typ (Io=100%)			
		ACIN 200V	0.2typ (Io=100%)			
	FREQUENCY[Hz]	47 - 440 or DC				
	INRUSH CURRENT[A]	ACIN 100V	15typ (Io=100%)			
		ACIN 200V	30typ (Io=100%)			
OUTPUT	LEAKAGE CURRENT[mA]	0.5max (60Hz, According to IEC60950 and DEN-AN)				
	EFFICIENCY[%]	65typ	74typ	78typ	78typ	81typ
	VOLTAGE[V]	3.3	5	12	15	24
	CURRENT[A]	*1 2.0 (Peak 2.4)	2.0 (Peak 2.4)	0.9 (Peak 1.08)	0.7 (Peak 0.84)	0.45 (Peak 0.54)
	LINE REGULATION[mV]	20max	20max	48max	60max	96max
	LOAD REGULATION[mV]	40max	40max	100max	120max	150max
	RIPPLE[mVp-p]	0 to +55°C *2	80max	80max	120max	120max
		-10 - 0°C *2	140max	140max	160max	160max
		0 to +55°C *2	180max	180max	200max	200max
	RIPPLE NOISE[mVp-p]	0 to +55°C *2	120max	120max	150max	150max
		-10 - 0°C *2	160max	160max	180max	180max
		0 to +55°C *2	200max	200max	220max	220max
	TEMPERATURE COEFFICIENT[mV]	-10 to +55°C	100max	50max	120max	150max
	DRIFT[mV]	*3 20max	20max	48max	60max	96max
	OUTPUT VOLTAGE SETTING[V]	3.19 - 3.47	4.90 - 5.30	11.40 - 12.60	14.25 - 15.75	23.0 - 25.0
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed				
	START-UP TIME[ms]	700max (ACIN 85V, Io=100%)				
	HOLD-UP TIME[ms]	10typ (ACIN 85V, Io=100%), 20typ (ACIN 100V, Io=100%)				
PROTECTION CIRCUIT	OVERCURRENT PROTECTION	Works over 125% of rating and recovers automatically				
	OVERVOLTAGE PROTECTION	Works over 115% of rating (By zener diode clamping)				
ISOLATION	INPUT-OUTPUT	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)				
	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)				
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-10 to +71°C, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max				
	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 NOISE REGULATIONS	AGENCY APPROVALS	UL60950-1, C-UL, EN60950-1, EN50178 Complies with DEN-AN and IEC60950-1				
	CONDUCTED NOISE	Complies with FCC-B, VCCI-B, CISPR22-B, EN55022-B				
OTHERS	CASE SIZE/WEIGHT	36 X 21 X 78mm [1.42 X 0.83 X 3.07 inches] (W X H X D) / 40g max				
	COOLING METHOD	Convection				

*1 Peak load for 10sec. or less in acceptable if the total wattage is less than the rated wattage.

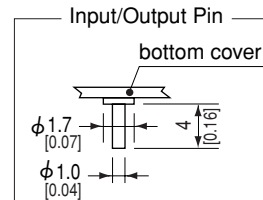
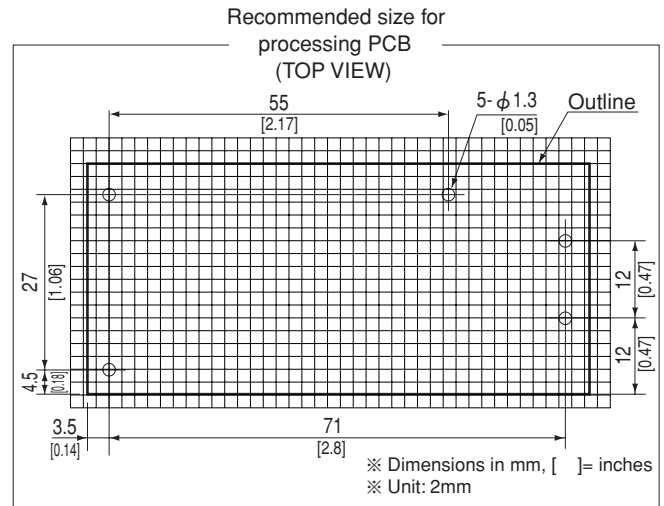
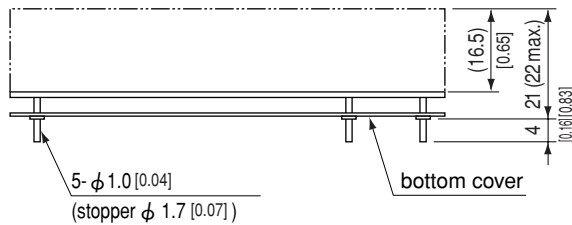
*2 This is the value that measured on measuring board with capacitor of 22 μ F. Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM101).

*3 Drift is the change 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



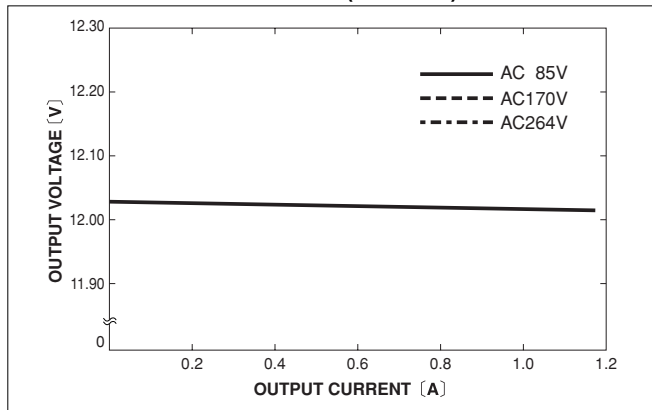
(TOP VIEW)



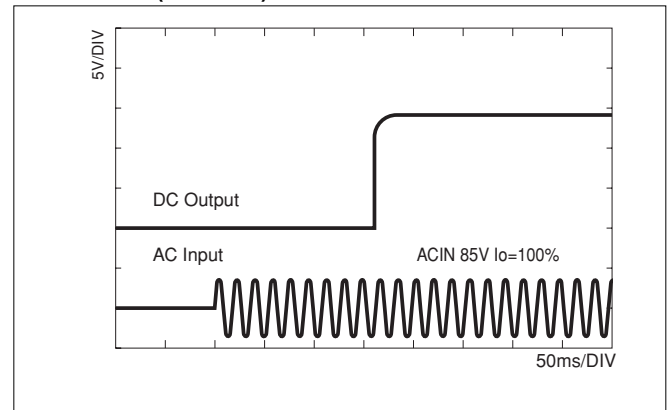
- ※ Weight: 40g max
- ※ Tolerance: ± 0.5 [± 0.02]
- ※ PCB material: CEM-3
- ※ PCB thickness: $t=1.0$ [0.04]
- ※ Pin material: CPW with solder plated
- ※ Recommended hole dia. to PCB: $\phi 1.3$
- ※ Dimensions in mm, [] = inches

Performance data

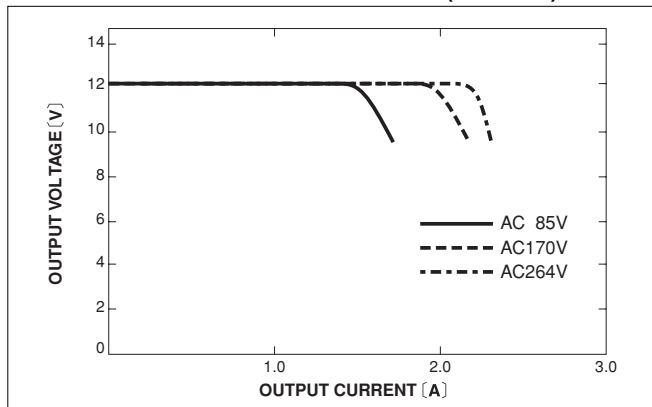
STATIC CHARACTERISTICS (VAF1012)



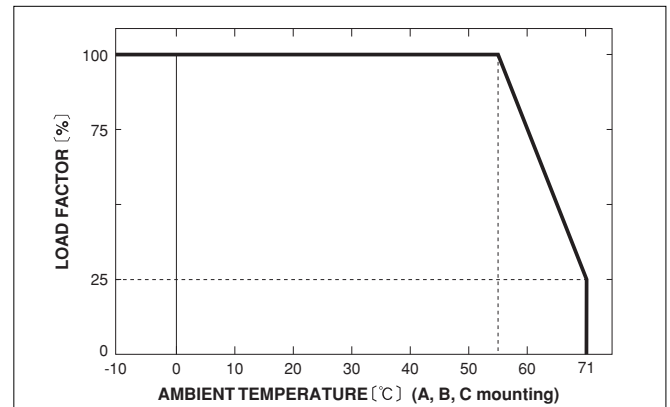
RISE TIME (VAF1012)



OVERCURRENT CHARACTERISTICS (VAF1012)



DERATING CURVE



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[VAF1005](#) [VAF1024](#) [VAF515](#) [VAF512](#) [VAF1015](#) [VAF1003](#) [VAF1012](#) [VAF505](#) [VAF503](#) [VAF524](#)



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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