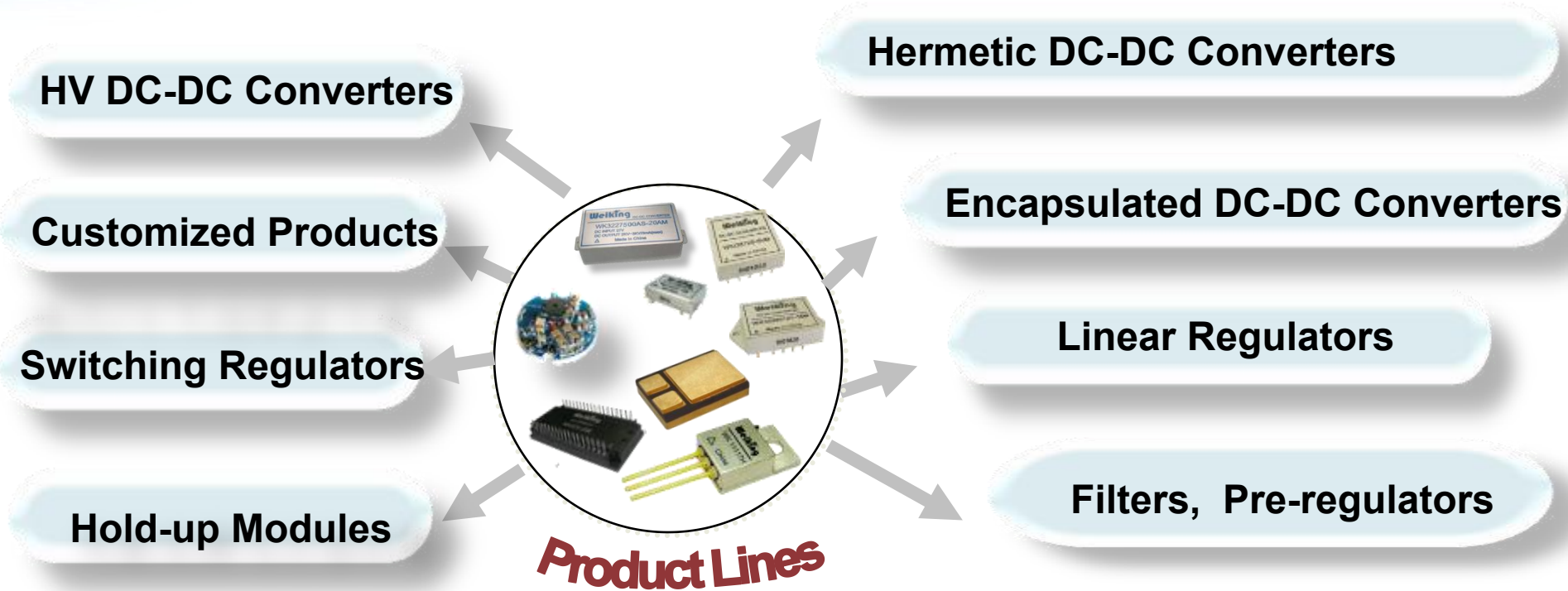


***DC/DC преобразователи напряжения и
аксессуары специального назначения***





- ◆ Input Voltage: 16V_{DC} to 40V_{DC}
- ◆ Output Voltage: 5V, 12V, 15V, 28V
±5V, ±12V, ±15V
5V&±12V, 5V&±15V
- ◆ Output Power: 1W to 150W
- ◆ Transient Voltage: 50V/50ms
- ◆ Inhibit Function
- ◆ Output Short Circuit Protection
- ◆ Soft Start
- ◆ Optocoupler Feedback
- ◆ Operating Temp. (T_c): -55°C to +105°C
- ◆ Hermetically Sealed Metal Enclosure



Low Ripple DC-DC Converters (Hermetic)

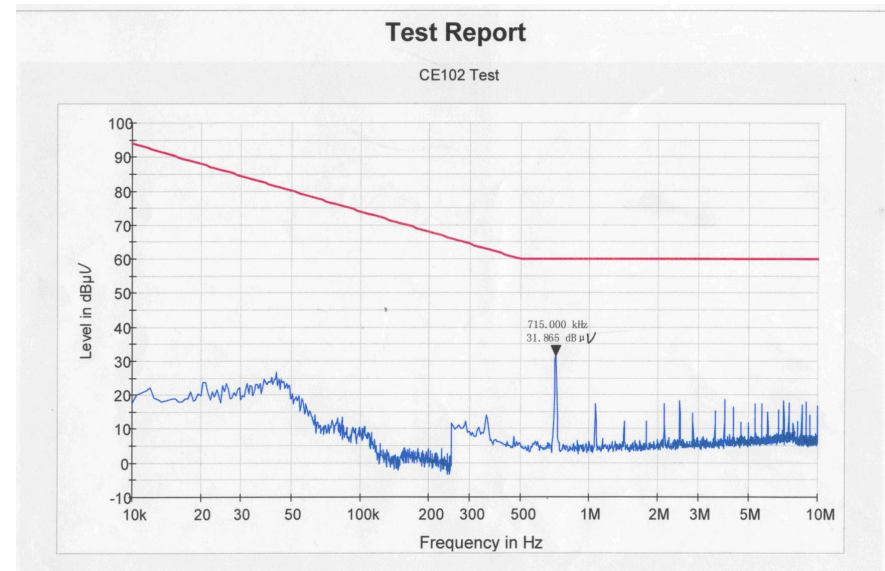
- ◆ Input Voltage: 16V_{DC} to 40V_{DC}
- ◆ Output Voltage: 5V, 5.2V, 12V, 15V, ±5V, ±12V, ±15V
- ◆ Transient Voltage: 50V/50ms
- ◆ Output Power: 15W
- ◆ Built-in EMI Input Filter
- ◆ Inhibit Function
- ◆ Short Circuit Protection
- ◆ Optocoupler Feedback
- ◆ Operating Temp. (T_c): -55°C to +105°C
- ◆ EMI Meets the Requirements of MIL-STD-461D's CE102
- ◆ Low Output Ripple Voltage (tested with ground lead of probe)

20MHZ

20mV

100MHZ

50mV



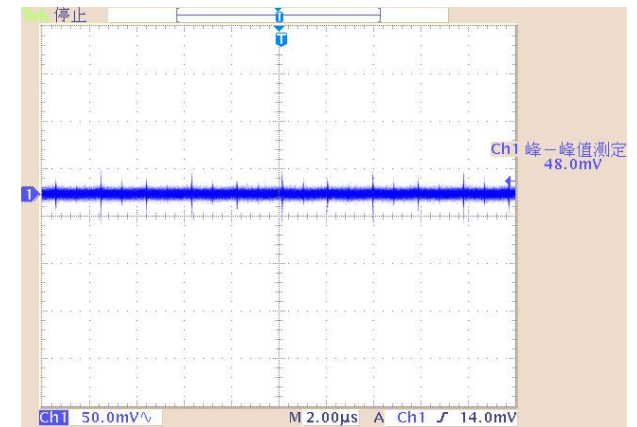
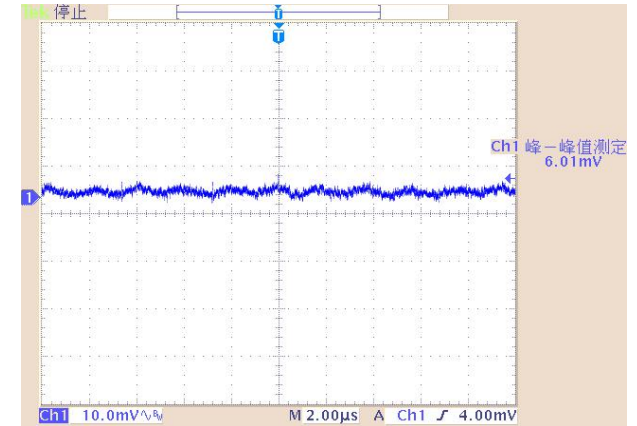
- ◆ Input Voltage Range: 16V_{DC} ~ 40V_{DC}
- ◆ Output Voltage: 5V, 12V, 15V
- ◆ Output Power: 10W
- ◆ Voltage Transient: 50V/50ms
- ◆ Low Ripple, Low Noise
(tested with ground lead of probe)

20MHZ	20mV
100MHZ	50mV

NEW!



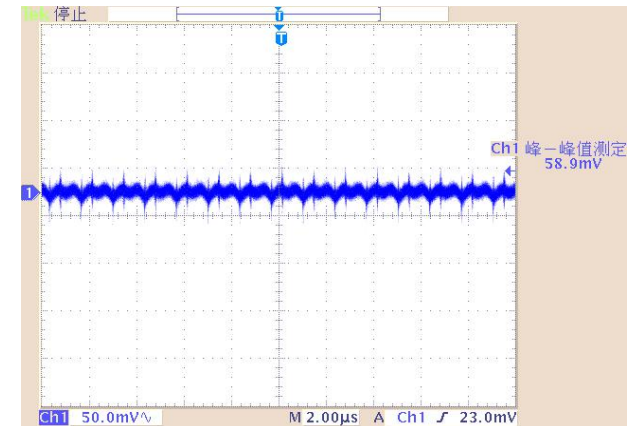
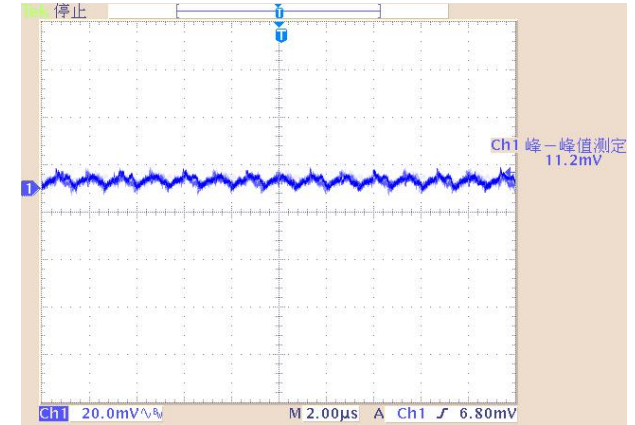
- ◆ Inhibit Function
- ◆ Output Over Current Protection
- ◆ Short Circuit Protection
- ◆ Optocoupler Isolation between Input and Output
- ◆ Operating Temp (TC): -55°C ~ +125°C
- ◆ Small Size: 27.23*27.23*8.4mm
- ◆ Compliant with MIL-PRF-38534



High Power Density Low Noise DC-DC Converters (Hermetic)

- ◆ Input Voltage Range: $16V_{DC} \sim 40V_{DC}$
- ◆ Output Voltage: 5V, 12V, 15V
- ◆ Output Power: 25W, 30W
- ◆ Voltage Transient: 50V/50ms
- ◆ Low Ripple, Low Noise
(tested with ground lead of probe)
 - 20MHZ 30mV (typ.)
 - 100MHZ 60mV (typ.)
- ◆ Inhibit Function, SYNC Function
- ◆ Output Over Current Protection
- ◆ Short Circuit Protection
- ◆ Optocoupler Isolation between Input and Output
- ◆ Operating Temp (TC): $-55^{\circ}C \sim +125^{\circ}C$
- ◆ Small Size: 50.8*28.44*10mm
- ◆ Compliant with MIL-PRF-38534

NEW!



High Reliability Encapsulated DC-DC Converters (2W~25W)

- ◆ Input Voltage: 16V_{DC} to 40V_{DC}
- ◆ Output Voltage: 3.3V, 5V, 12V, 15V, ±12V, ±15V, 5V/12V, 5V/15V, 5V&±12V, 5V&±15V
- ◆ Output Power: 2W to 25W
- ◆ Transient Voltage: 50V/100ms
- ◆ Inhibit Function (excluding 2W series)
- ◆ Soft Start, Indefinite Short Circuit Protection
- ◆ Optocoupler Feedback (Isolation Voltage: 1500V_{DC})
- ◆ Operation Range: 0%~100% Load
- ◆ Operating Temperature (T_c): -55°C to +105°C
- ◆ Encapsulated Package
- ◆ Load regulation: 0.2%
- ◆ Designed with Fixing Tabs (allowing the converter to be soldered onto the PCB, to get a better anti-shock and vibration performance)



- ◆ Input Voltage: $16V_{DC}$ to $40V_{DC}$
- ◆ Transient Voltage: $50V/50ms$
- ◆ Output Voltage: $5V, 12V, 15V, \pm 5V, \pm 12V, \pm 15V$
- ◆ Output Power: $15W$
- ◆ Built-in Input EMI Filter
- ◆ Short Circuit Protection
- ◆ EMI meet the requirements of MIL-STD-461D's CE102
- ◆ Low output ripple voltage (tested with ground lead of probe)

20MHZ	20mV
100MHZ	45mV
- ◆ Designed with Fixing Tabs (allowing the converter to be soldered onto the PCB, to get a better anti-shock and vibration performance)



- ◆ **Input Voltage Range: $16V_{DC} \sim 40V_{DC}$**
- ◆ **Output Voltage: 5V, 12V, 15V, $\pm 5V$, $\pm 12V$, $\pm 15V$**
- ◆ **Output Power: 10W**
- ◆ **Voltage Transient: 50V/50ms**
- ◆ **Designed with Built-in Input EMI Filter**
- ◆ **Low output ripple voltage**
(tested with ground lead of probe)

20MHZ	30mV (typ.)
100MHZ	50mV (typ.)
- ◆ **Short Circuit Protection**
- ◆ **Six-Sided Metal Package**
- ◆ **Small Size: 31.7*20.1*7.5mm**



- ◆ **Input Voltage Range: 16V_{DC} ~ 40V_{DC}**
- ◆ **Output Voltage: 5V, 12V, 15V, ±5V, ±12V, ±15V**
- ◆ **Output Power: 20W**
- ◆ **Voltage Transient: 50V/50ms**
- ◆ **Designed with Built-in Input EMI Filter**
- ◆ **Low output ripple voltage**
(tested with ground lead of probe)



	Single	Dual
20MHz	20mV (typ.)	30mV (typ.)
100MHz	35mV (typ.)	50mV (typ.)

- ◆ **Short Circuit Protection**
- ◆ **Six-Sided Metal Package**
- ◆ **Small Size: 40*26*10mm**



- ◆ **Input Voltage Range: 16V_{DC} ~ 40V_{DC}**
- ◆ **Output Voltage: 5V, 12V, 15V, ±5V, ±12V, ±15V**
- ◆ **Output Power: 40W**
- ◆ **Voltage Transient: 50V/50ms**
- ◆ **Designed with Built-in Input EMI Filter**
- ◆ **Low output ripple voltage**
(tested with ground lead of probe)

	Single	Dual
20MHz	20mV (typ.)	30mV (typ.)
100MHz	35mV (typ.)	50mV (typ.)

- ◆ **Short Circuit Protection**
- ◆ **Six-Sided Metal Package**
- ◆ **Small Size: 50.8*25.4*11.7mm**



DC-DC Converters with Isolated Outputs

- ◆ Input Voltage: $16V_{DC}$ to $40V_{DC}$
- ◆ Output Voltage: $\pm 5V$, $\pm 12V$, $\pm 15V$
 $5V \& \pm 12V$, $5V \& \pm 15V$
- ◆ Transient Voltage: $50V/100ms$
- ◆ Output Power: $33W$, $50W$
- ◆ Inhibit Function, Soft Start
- ◆ Indefinite Short Circuit Protection
- ◆ Output Voltage Trimming
- ◆ Dual PWM Control
- ◆ Isolation Voltage: $1500V_{DC}$
- ◆ Operating Temperature (T_c): $-55^{\circ}C$ to $+105^{\circ}C$
- ◆ Isolated Outputs
- ◆ Separate voltage feedback ensures regulated outputs with unbalanced loads



- ◆ **Input Voltage: 160V_{DC} to 400V_{DC}**
- ◆ **Output Voltage: 12V, 15V, 28V**
- ◆ **Output Power: 150W**
- ◆ **Transient Voltage: 500V/50ms**
- ◆ **Remote Sensing**
- ◆ **Output Voltage Trimming**
- ◆ **Inhibit Function**
- ◆ **Soft Start**
- ◆ **Short Circuit Protection**
- ◆ **Optocoupler Isolation**
- ◆ **Operating Temperature(Tc): - 55°C to +105 °C**

WK3127012S-150

WK3127015S-150

WK3127028S-150



Applicable for the aviation systems with 270V DC bus input voltage



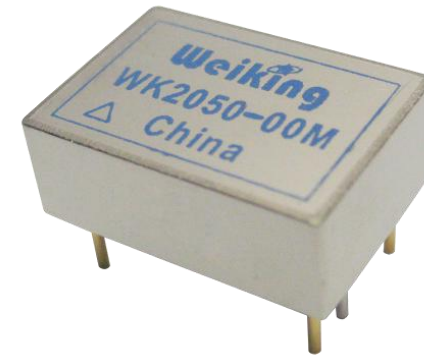
- ◆ Input Voltage: $21V_{DC}$ to $33V_{DC}$
- ◆ Output Voltage: $500V_{DC}$, $1000V_{DC}$, $1800V_{DC}$,
 $3000V_{DC}$, $4000V_{DC}$, $4500V_{DC}$
- ◆ Adjustable Output Voltage
- ◆ High Efficiency up to 88%
- ◆ Output Over Current Protection, Short Circuit Protection
- ◆ Inhibit Function
- ◆ Operating Temperature(T_c): $-55^{\circ}C$ to $+105^{\circ}C$
- ◆ Size: $64.4*36.76*17.3mm$ (non-flanged)
- ◆ Isolation Voltage (Input-Output, Output-Case, Input-Case): $5KV_{DC}$



Applicable for LIMU, laser illuminator, laser measurement, radar system, electrostatic detector, etc.



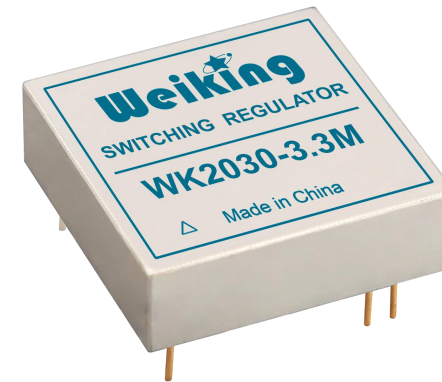
- ◆ Input Voltage: $4.5V_{DC}$ to $5.5V_{DC}$
- ◆ 1.2V to 3.3V Adjustable Output
- ◆ Available with 1.2V, 1.5V, 1.8V, 2.5V, 3.3V Outputs
- ◆ Output Current: 5A
- ◆ High Efficiency up to 91%
- ◆ Over Current Protection
- ◆ Short Circuit Protection
- ◆ Inhibit Function
- ◆ Operating Temp. (Tc): $-55^{\circ}C$ to $+125^{\circ}C$
- ◆ Hybrid Integrated, Hermetically Sealed Metal Package
- ◆ Size: 20*14*7.2mm

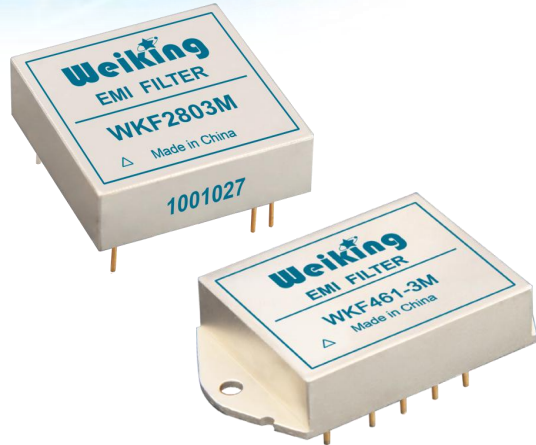


Applicable for power supplies of FPGA, DSP, ARM, CPU, memory and other large scale integrated circuits.



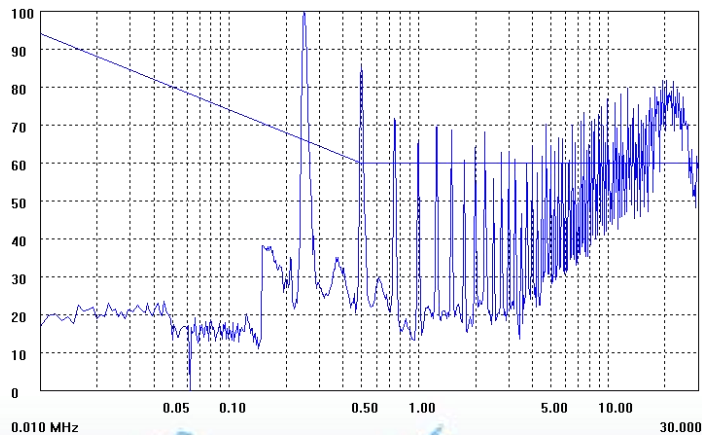
- ◆ Input Voltage: 4.5V_{DC} to 32V_{DC}
- ◆ Output Voltage: 2.5V, 3.3V, 5.0V
- ◆ Output Current: 3A, 6A
- ◆ Maximum Efficiency: 93% (for 5V outputs)
- ◆ Quiescent Current < 1mA
- ◆ Operating Temp. (Tc): -55°C ~ +105°C
- ◆ Hermetically Sealed Metal Enclosure
- ◆ Programmable Soft Start-up Time
- ◆ User Programmable over Current Limit



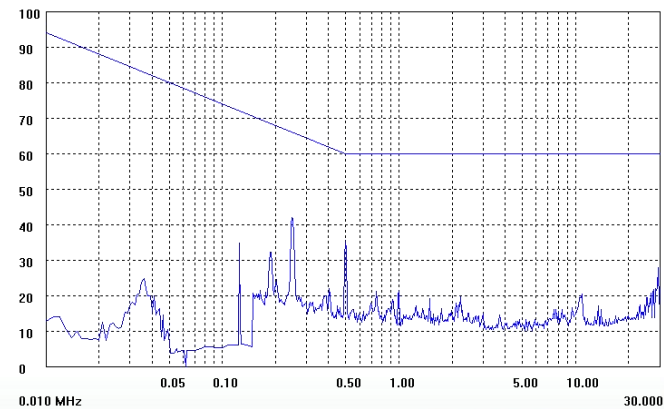


- ◆ Input Voltage: $0V_{DC} \sim 75V_{DC}$
- ◆ Nominal Voltage: 28V
- ◆ Maximum Current: 3A~5A
- ◆ Low Dropout Voltage and High Efficiency
- ◆ Designed and manufactured in accordance with MIL-PRF-38534 standards
- ◆ Enabling Weiking's WKI and WK30/31 series DC-DC converters meet the requirements of MIL-STD-461's CE102

WKI2812S-20M with no filter



WKI2812S-20M+WKF2803M

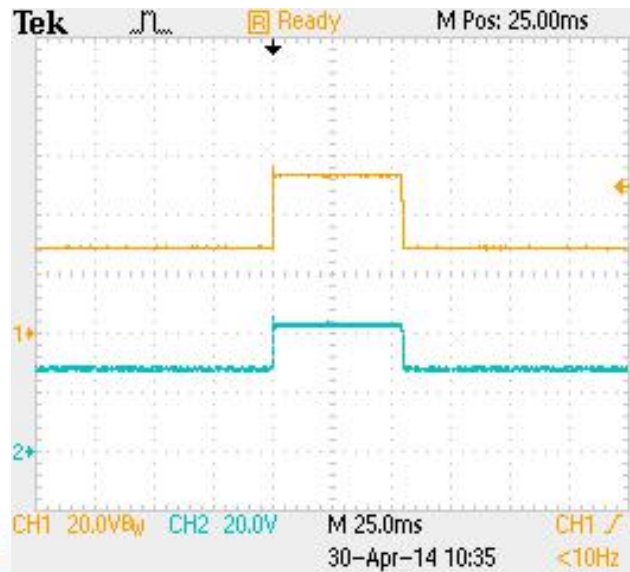


EMI Filter with Transient Suppression Function

- ◆ Input Voltage Range: 16V_{DC} to 80V_{DC}
- ◆ Nominal Voltage: 28V
- ◆ Output Current (max): 7A
- ◆ Work through Transient up to 80V/50ms per MIL-STD-704
- ◆ ±600V/10μs Spike Suppression
- ◆ Low Dropout Voltage, High Efficiency
- ◆ Meet the Requirements of MIL-STD-461's CE102



80V/50ms



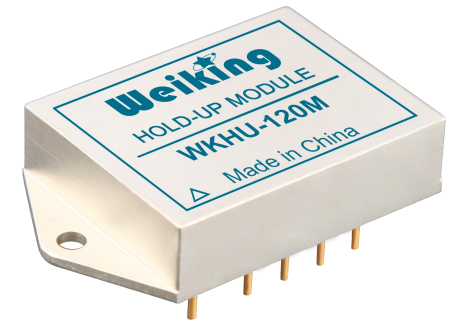
Pre-regulators



- ◆ Input Voltage: 10V_{DC} to 40V_{DC}
- ◆ 80V/50ms Transient Suppression
- ◆ 8V/50ms Low Line Operation
- ◆ ±600V/10μs Spike Suppression
- ◆ Output Power: 100W
- ◆ Efficiency: 97%
- ◆ ON/OFF Function
- ◆ Operating Temp. (Tc): - 55°C to +125°C
- ◆ Meet the Requirements of MIL-STD-704

Extending converter's input bus voltage during voltage transients, spikes and drop-out

Hold-up Modules



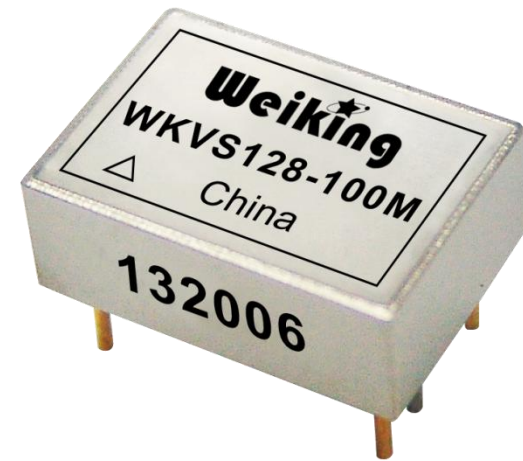
- ◆ Maximum Input Voltage: 50V/50ms
- ◆ Output Power: 120W
- ◆ Efficiency : 99%
- ◆ Hold-up Time: 5μs/μF (120W)
- ◆ Operating Temp. (Tc): - 55°C to +125 °C

Minimizing the hold-up capacitor and give significant reduction in surge current



- ◆ Output Power (max): 100W
- ◆ 80V/50ms Transient Suppression
- ◆ $\pm 600\text{V}/10\mu\text{s}$ Spike Suppression
- ◆ Inhibit Function
- ◆ Clamped Maximum Output:
WKVS128-100M—40V
- ◆ High Efficiency up to 98%
- ◆ Operating Temp. (Tc): - 55°C to +125°C
- ◆ Small Size: 20mm × 14mm × 7.2mm

Applicable for improving DC-DC converter's input characteristics and protecting it from spikes.



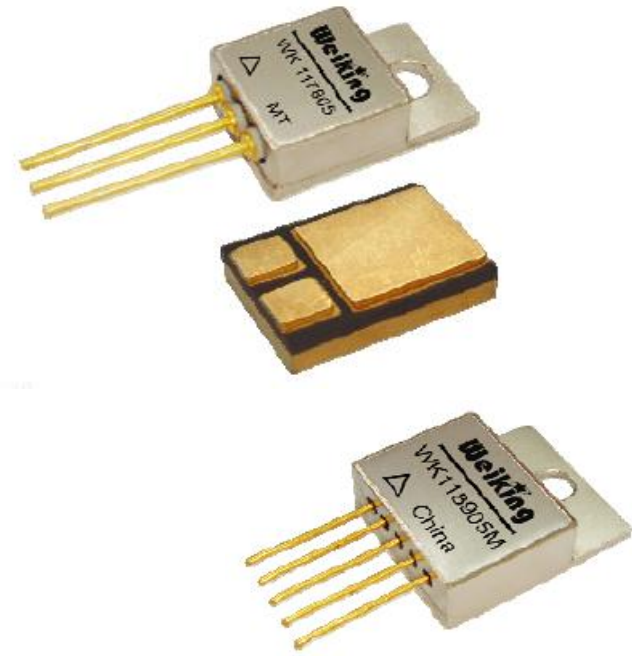
- ◆ Output Power (max): 50W
- ◆ 80V/50ms Transient Suppression
- ◆ $\pm 600\text{V}/10\mu\text{s}$ Spike Suppression
- ◆ Inhibit Function
- ◆ Clamped Maximum Output:
 - WKVS128-50A——40V
 - WKVS128-50B——36V
- ◆ High Efficiency up to 98%
- ◆ Operating Temp. (Tc): - 55°C to +105°C
- ◆ Small Size: 26.8mm×11.4mm×6.8mm
- ◆ Designed with Fixing Tabs (allowing the converter to be soldered onto the PCB, to get a better anti-shock and vibration performance)



Applicable for improving DC-DC converter's input characteristics and protecting it from spikes.



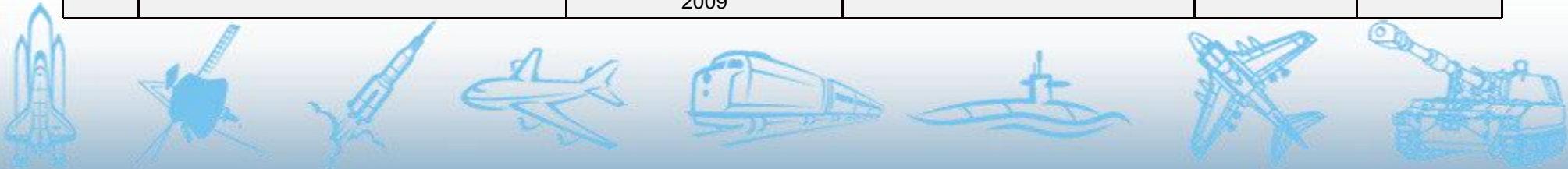
- ◆ Available with 5V, 12V, 15V, -5V, -12V, -15V, ± 5 , ± 12 , ± 15 V, 1.2~37V Output
- ◆ Output Current: 1A
- ◆ Internal Thermal Overload Protection
- ◆ Short Circuit Protection
- ◆ Operating Temp. (Tc): $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$
- ◆ Packaging: TO-257, SMD, Hermetic SIP
- ◆ Size(mm): 16.5*10.6*4.93 (TO-257)
15.88*11.43*3.43 (SMD)
20.83*17.53*6.1 (SIP)



NO.	TEST/INSPECTION ITEMS	METHODS	CONDITIONS	REQUIREMENTS	
				GRADE M	GRADE I
1	INTERNAL INSPECTION	MIL-STD-883 METHOD 2017	-	100%	100%
2	HIGH TEMPERATURE STORAGE	MIL-STD-810.3	125° C,48h	100%	-
3	TEMP-CYCLE	MIL-STD-883 METHOD 1010	CONDITION B	100%	-
4	CONSTANT ACCELERATION	MIL-STD-202 METHOD 212	Y1, 3000g, 1min	100%	-
5	INTERMEDIATE ELECTRICAL TEST	DETAILED PRODUCT SPECIFICATION	AMBIENT TEMPERATURE	100%	-
6	BURN-IN	DETAILED PRODUCT SPECIFICATION	MAX OPERATING TEMP, 160h	100%	-
			MAX OPERATING TEMP, 96h	-	-
			MAX OPERATING TEMP, 48h	-	100%
7	FINAL ELECTRICAL TEST	DETAILED PRODUCT SPECIFICATION	AMBIENT TEMPERATURE	100%	100%
			MIN OPERATING TEMP	100%	100%
			MAX OPERATING TEMP	100%	100%
8	SEAL	MIL-STD-883 METHOD 1014	CONDITION A1	100%	-
		MIL-STD-883 METHOD 1014	CONDITION C1	100%	100%
9	EXTERNAL INSPECTION	MIL-STD-883 METHOD 2009	-	100%	100%

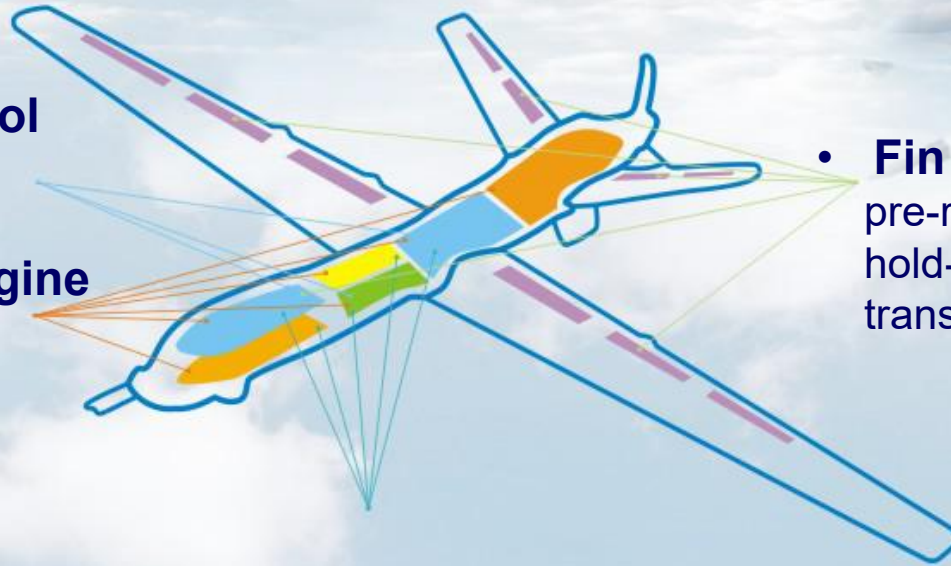


NO.	TEST/INSPECTION ITEMS	METHODS	CONDITIONS	REQUIREMENTS	
				CLASS M	CLASS I
1	INTERNAL INSPECTION	MIL-STD-883 METHOD 2017	-	100%	100%
2	HIGH TEMPERATURE STORAGE	MIL-STD-810.3	125° C,48h	100%	-
3	TEMP-CYCLE	MIL-STD-883 METHOD 1010	CONDITION B	100%	-
4	INTERMEDIATE ELECTRICAL TEST	DETAILED PRODUCT SPECIFICATION	AMBIENT TEMPERATURE	100%	-
5	BURN-IN	DETAILED PRODUCT SPECIFICATION	MAX OPERATING TEMP,160h	100%	-
			MAX OPERATING TEMP, 96h	-	-
			MAX OPERATING TEMP, 48h	-	100%
6	FINAL ELECTRICAL TEST	DETAILED PRODUCT SPECIFICATION	AMBIENT TEMPERATURE	100%	100%
			MIN OPERATING TEMP	100%	100%
			MAX OPERATING TEMP	100%	100%
7	EXTERNAL INSPECTION	MIL-STD-883 METHOD 2009	-	100%	100%



- **Satcom & Aircraft Control**
EMI filters

- **Inertial Navigation & Engine**
board-level power supply



- **Fin Actuator**
pre-regulators
hold-up modules
transient voltage suppressors

- **Radar Topography Mission & Power Supply**
DC-DC converters

- **Artillery Stabilizer**

- linear/switching regulators
 - low-voltage output DC-DC converters

- **Turret Control**

- low-voltage output DC-DC converters

- **Communications**

- EMI filter
 - low-voltage output DC-DC converters
 - high-voltage output DC-DC converters

- **On-board Computer & Fire Control Computer**

- board-level power EMI filters
 - linear/switching regulators
 - low-voltage output DC-DC converters



- **Aiming**

- linear/switching regulators
 - low-voltage output DC-DC converters

- **Distance Measuring**

- linear/switching regulators
 - low-voltage output DC-DC converters

- **Turret Control**

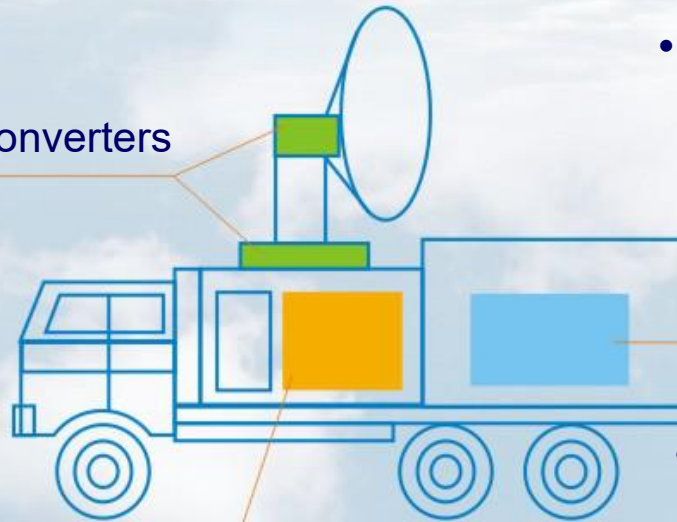
- EMI filters
- low-voltage output DC-DC converters

- **Communications**

- EMI filters
- board-level power supply
- linear/switching regulators
- low-voltage output DC-DC converters
- high-voltage output DC-DC converters

- **Computer**

- EMI filters
- board-level power supply
- linear/switching regulators
- low-voltage output DC-DC converters



- **Navigation**

- EMI filters
- linear/switching regulators
- low voltage output DC-DC converters

- **Radar**

- EMI filters
- LV/HV output DC-DC converters

- **Communications**

- EMI filters board-level power supply
- linear/switching regulators
- LV/HV output DC-DC converters

- **Turret Control**

- EMI filters
- LV output DC-DC converters

- **Fire Control & Aiming**

- EMI filters
- board-level power supply
- linear/switching regulators
- LV/HV output DC-DC converters

- **Missile Launcher**

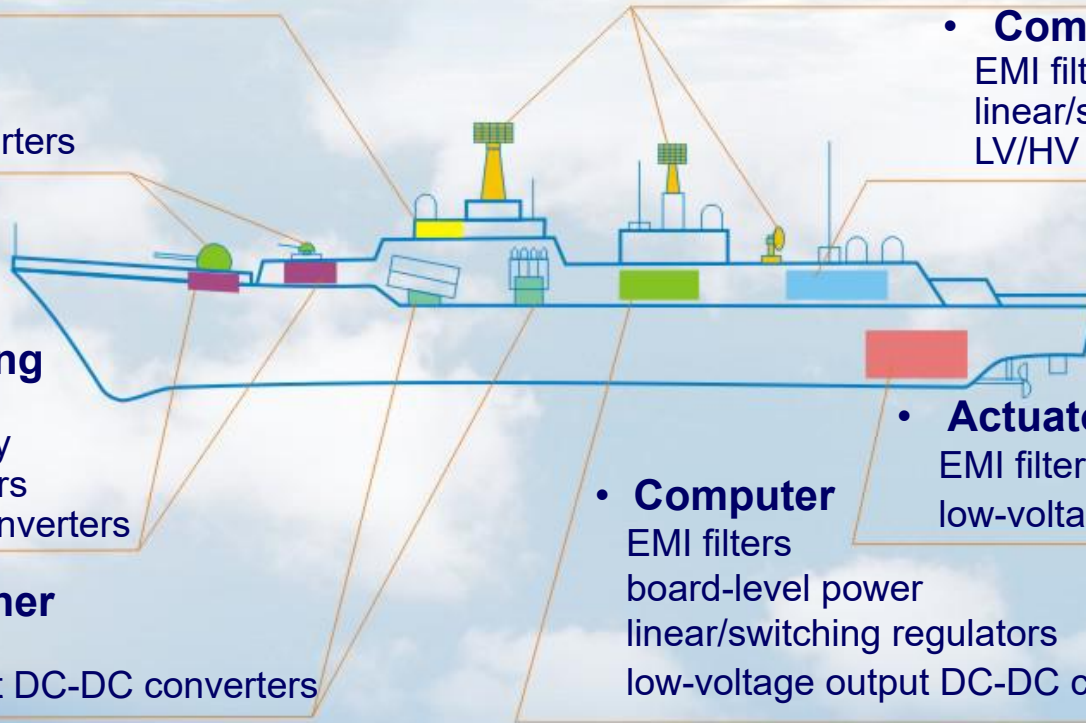
- EMI filters
- low-voltage output DC-DC converters

- **Computer**

- EMI filters
- board-level power
- linear/switching regulators
- low-voltage output DC-DC converters

- **Actuator Control**

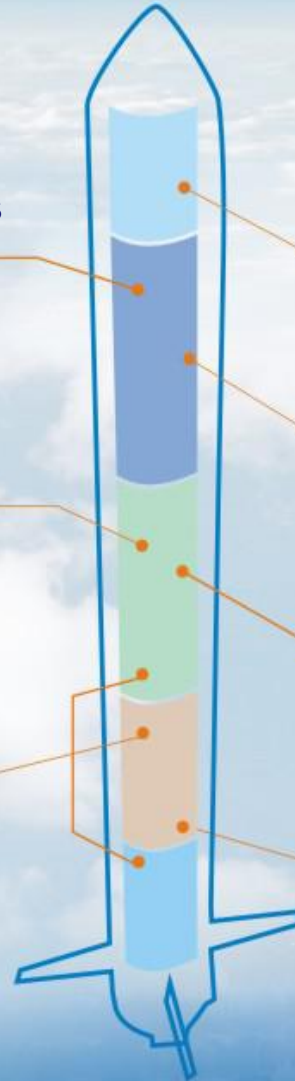
- EMI filters linear/switching regulators
- low-voltage output DC-DC converters



- **Computer Control**
EMI filters
linear/switching regulators

- **Actuator Control**
EMI filters

- **Inertial Navigation**
board-level power supply



- **Seeker**
multi-output DC-DC converters

- **Computer Control**
low-voltage output DC-DC converters
pre-regulators hold-up modules

- **Actuator Control**
low-voltage output DC-DC converters

- **Inertial Navigation**
high-voltage output DC-DC converters





Дистрибьютор WEIKING в России компания ООО "ЭЛСАП"
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