

1W, Fixed input voltage, isolated & unregulated dual/single output



UL US CE Patent Protection RoHS

FEATURES

- Ultra Compact SIP package
- Operating temperature range: -40°C to +105°C
- High efficiency up to 80%
- Isolation voltage: 1.5K VDC
- High power density
- No external component required
- International standard pin-out
- UL60950,EN60950 approval

A_S-1WR2 & B_LS-1WR2 series is specially designed for applications where an isolated voltage is required in a distributed power supply system. It is suitable for:

1. Where the voltage of the input power supply is stable (voltage variation: $\pm 10\%V_{in}$);
 2. Where isolation is necessary between input and output (isolation voltage $\leq 1500VDC$);
 3. Where do not has high requirement of line regulation and load regulation;
- Such as: pure digital circuits, low frequency analog circuits, relay-driven circuits and data switching circuits.

Selection Guide

Certification	Part No.	Input Voltage (VDC)	Output		Efficiency (%Min./Typ.) @ Full Load	Max. Capacitive Load*(μF)
		Nominal (Range)	Output Voltage (VDC)	Output Current (mA)(Max./Min.)		
--	B0303LS-1WR2	3.3 (2.97-3.63)	3.3	303/31	68/72	220
	B0305LS-1WR2		5	200/20	74/78	
UL/CE	A0503S-1WR2	5 (4.5-5.5)	± 3.3	$\pm 152/\pm 15$	67/71	100
	A0505S-1WR2		± 5	$\pm 100/\pm 10$	76/80	
	A0509S-1WR2		± 9	$\pm 56/\pm 6$	76/80	
	A0512S-1WR2		± 12	$\pm 42/\pm 5$	76/80	
	A0515S-1WR2		± 15	$\pm 34/\pm 4$	76/80	
	A0524S-1WR2		± 24	$\pm 21/\pm 3$	76/80	
--	B0503LS-1WR2	5 (4.5-5.5)	3.3	303/31	70/74	220
	B0505LS-1WR2		5	200/20	76/80	
	B0509LS-1WR2		9	111/11	76/80	
	B0512LS-1WR2		12	84/9	76/80	
	B0515LS-1WR2		15	67/7	76/80	
	B0524LS-1WR2		24	42/5	76/80	
--	A0909S-1WR2	9 (8.1-9.9)	± 9	$\pm 56/\pm 6$	76/80	100
	A0915S-1WR2		± 15	$\pm 34/\pm 4$	76/80	
	A1203S-1WR2		± 3.3	$\pm 152/\pm 15$	72/76	
UL/CE	A1205S-1WR2	12 (10.8-13.2)	± 5	$\pm 100/\pm 10$	76/80	220
	A1209S-1WR2		± 9	$\pm 56/\pm 6$	76/80	
	A1212S-1WR2		± 12	$\pm 42/\pm 5$	76/80	
	A1215S-1WR2		± 15	$\pm 34/\pm 4$	76/80	
	A1224S-1WR2		± 24	$\pm 21/\pm 3$	76/80	
	B1203LS-1WR2		3.3	303/31	72/76	
UL/CE	B1205LS-1WR2	12 (10.8-13.2)	5	200/20	76/80	220
	B1209LS-1WR2		9	111/11	76/80	
	B1212LS-1WR2		12	84/9	76/80	
	B1215LS-1WR2		15	67/7	76/80	
	B1224LS-1WR2		24	42/5	76/80	

Model	Series	Output Voltage (V)	Output Current (mA)	Efficiency (%)	Power (W)
--	A1505S-1WR2	15 (13.5-16.5)	±5	±100/±10	76/80
	A1512S-1WR2		±12	±42/±5	76/80
	A1515S-1WR2		±15	±34/±4	76/80
UL	B1505LS-1WR2	15 (13.5-16.5)	5	200/20	76/80
CE	B1512LS-1WR2		12	84/9	76/80
CE	B1515LS-1WR2		15	67/7	76/80
UL/CE	A2405S-1WR2	24 (21.6-26.4)	±5	±100/±10	76/80
	A2409S-1WR2		±9	±56/±6	76/80
	A2412S-1WR2		±12	±42/±5	76/80
	A2415S-1WR2		±15	±34/±4	76/80
	A2424S-1WR2		±24	±21/±3	76/80
--	B2403LS-1WR2	24 (21.6-26.4)	3.3	303/31	70/74
UL/CE	B2405LS-1WR2		5	200/20	76/80
	B2409LS-1WR2		9	111/11	76/80
	B2412LS-1WR2		12	84/9	76/80
	B2415LS-1WR2		15	67/7	76/80
	B2424LS-1WR2	24	42/5	76/80	

Note:*The capacitive loads of positive and negative outputs are identical.

Input Specifications

Item	Operating Conditions	Min.	Typ.	Max.	Unit
Input Current (full load / no-load)	3.3V input	--	426/30	--/70	mA
	5V input	--	281/25	--/60	
	9V input	--	142/20	--/60	
	12V input	--	106/15	--/50	
	15V input	--	84/10	--/35	
	24V input	--	54/7	--/30	
Surge Voltage (1sec. max.)	3.3V input	-0.7	--	5	VDC
	5V input	-0.7	--	9	
	9V input	-0.7	--	12	
	12V input	-0.7	--	18	
	15V input	-0.7	--	21	
	24V input	-0.7	--	30	
Reflected Ripple Current		--	15	--	mA
Input Filter		Capacitor filter			
Hot Plug		Unavailable			

Output Specifications

Item	Operating Conditions	Min.	Typ.	Max.	Unit	
Output Voltage Accuracy		See tolerance envelope graph (Fig. 1)				
Line Regulation	Input voltage change: ±1%	3.3VDC output	--	--	±1.5	--
		Other output	--	--	±1.2	
Load Regulation	10%-100% load	3.3VDC output	--	18	--	%
		5VDC output	--	12	--	
		9VDC output	--	9	--	
		12VDC output	--	8	--	
		15VDC output	--	7	--	
		24VDC output	--	6	--	
Ripple & Noise*	20MHz bandwidth	--	60	150	mVp-p	
Temperature Drift Coefficient	100% load	--	--	±0.03	%/°C	

Output Short Circuit Protection**	B03xxLS-1WR2/A24xxS-1WR2 /B24xxLS-1WR2 A0524S-1WR2/B0524LS-1WR2	--	--	1	s
	others	Continuous, self-recovery			

Note: * Ripple and noise tested with "parallel cable" method, please see DC-DC Converter Application Notes for specific operation methods.
 **Supply voltage must be discontinued at the end of short circuit duration for B03xxLS-1WR2 series, A24xxS-1WR2 /B24xxLS-1WR2 series, and A0524S-1WR2/ B0524LS-1WR2 models.

General Specifications

Item	Operating Conditions	Min.	Typ.	Max.	Unit
Insulation Voltage	Input-output, with the test time of 1 minute and the leak current lower than 1mA	1500	--	--	VDC
Insulation Resistance	Input-output, insulation voltage 500VDC	1000	--	--	MΩ
Isolation Capacitance	Input-output, 100KHz/0.1V	--	20	--	pF
Operating Temperature	Derating if the temperature ≥85°C, (see Fig. 2)	-40	--	105	°C
Storage Temperature		-55	--	125	
Casing Temperature Rise	Ta=25°C	--	25	--	
Pin Welding Resistance Temperature	Welding spot is 1.5mm away from the casing, 10 seconds	--	--	300	
Storage Humidity	Non-condensing	--	--	95	%RH
Switching Frequency	100% load, nominal input voltage	--	100	--	KHz
MTBF	MIL-HDBK-217F@25°C	3500	--	--	K hours

Physical Specifications

Casing Material	Black flame-retardant heat-proof epoxy resin (UL94 V-0)
Package Dimensions	19.50*9.30*6.00 mm
Weight	2.4g(Typ.)
Cooling methods	Free air convection

EMC Specifications

EMI	CE	CISPR22/EN55022	CLASS B (see Fig. 4 for recommended circuit)
	RE	CISPR22/EN55022	CLASS B (see Fig. 4 for recommended circuit)
EMS	ESD	A_S-1WR2	IEC/EN61000-4-2 Contact ±6KV perf. Criteria B
		B_LS-1WR2	IEC/EN61000-4-2 Contact ±8KV perf. Criteria B

Product Characteristic Curve

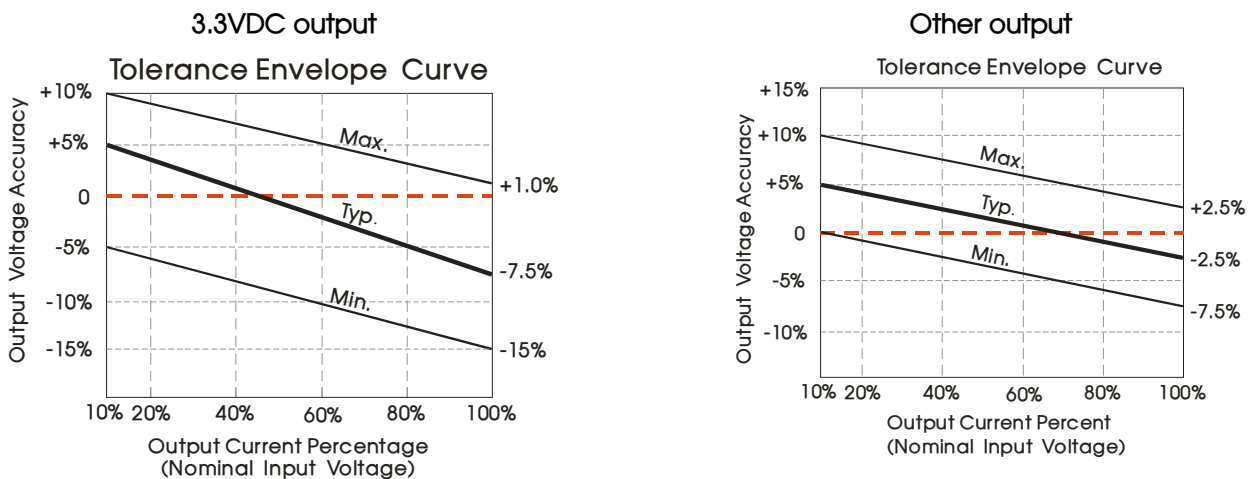


Fig. 1

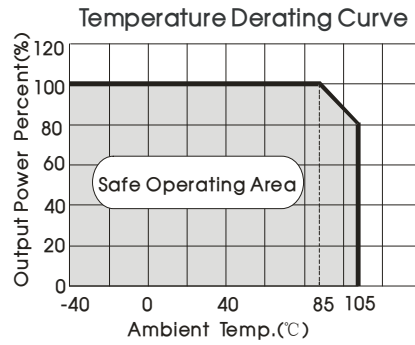
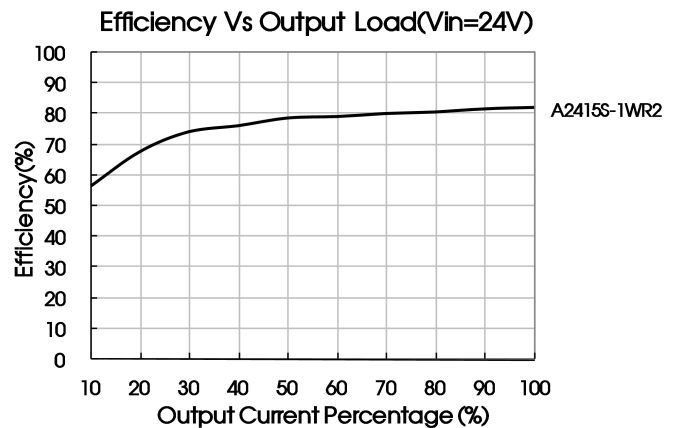
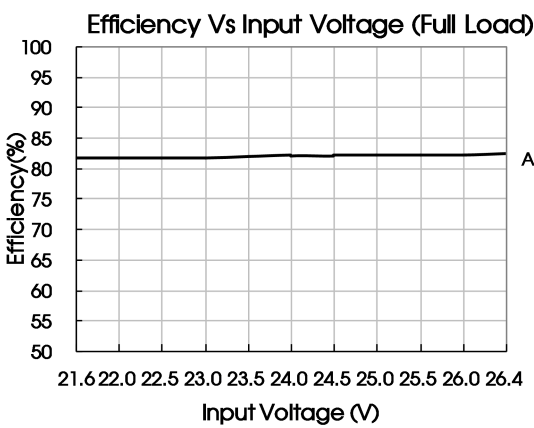
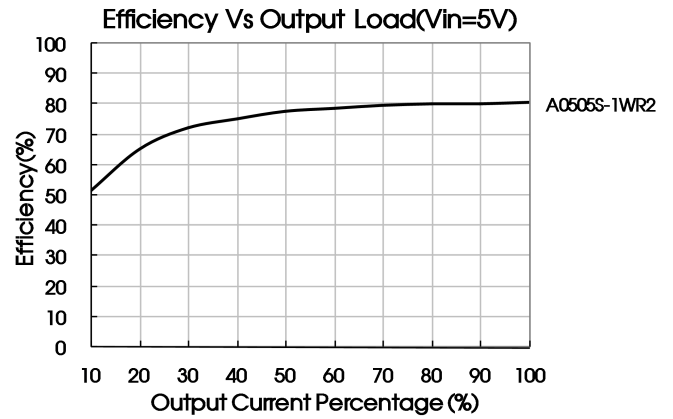
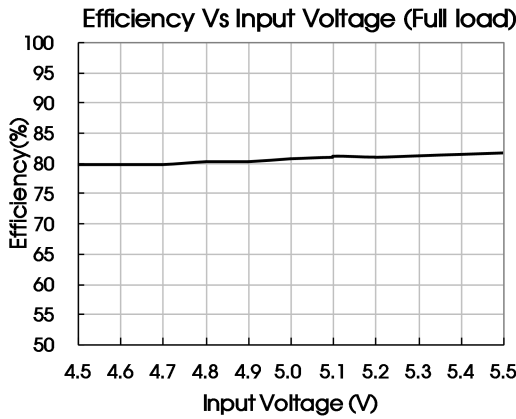


Fig. 2



Design Reference

1. Typical application

If it is required to further reduce input and output ripple, a filter capacitor can be connected to the input and output terminals, see Fig.3. Moreover, choosing suitable filter capacitor is very important, start-up problems may be caused by too large capacitance. To ensure the modules running well, the recommended capacitive load values as shown in Table 1.

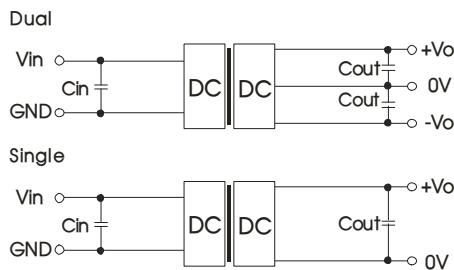


Fig.3

Recommended capacitive load value table (Table 1)

Vin (VDC)	Cin (μF)	Single Vout (VDC)	Cout (μF)	Dual Vout (VDC)	Cout (μF)
3.3/5	4.7	3.3/5	10	±3.3/±5	4.7
9/12	2.2	9/12	2.2	±9/±12	1
15	2.2	15/24	1	±15/±24	0.47
24	1	--	--	--	--

2. EMC typical recommended circuit (CLASS B)

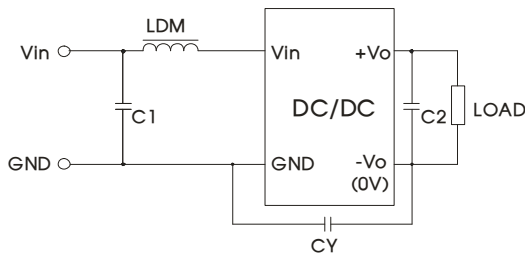


Fig. 4

Input voltage (VDC)		3.3/5/9/12	15/24
EMI	C1	4.7μF /50V	
	C2	Refer to the Cout in Fig.3	
	CY	--	1nF/2KV
	LDM	6.8μH	

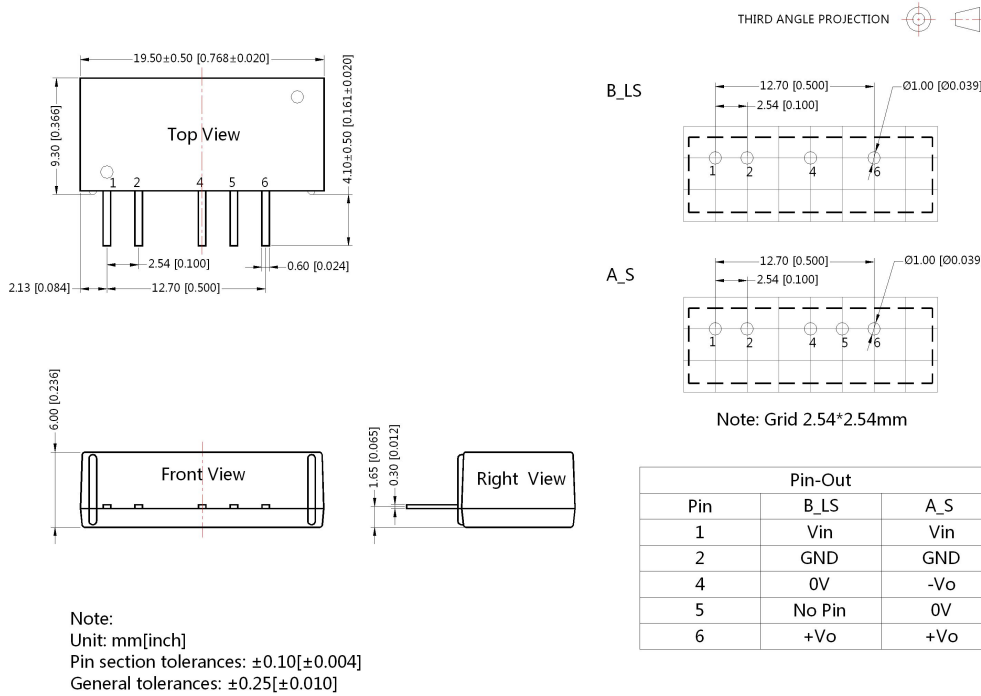
Note: 1. 15V/ 24V input series is subject to CY (CY : 1nF/2KV).
2. It is not needed to add the component in the peripheral circuit when parameter with the symbol of "--".

3. Output load requirements

In order to ensure the converter can work reliably with high efficiency, the minimum load should not less than 10% rated load when it is used. If the needed power is indeed small, please parallel a resistor on the output side (The sum of the efficient power and resistor consumption power is not less than 10%).

4. For more information please find the application notes on www.mornsun-power.com

Dimensions and Recommended Layout



Note:

1. Packing information please refer to Product Packing Information which can be downloaded from www.mornsun-power.com. Packing bag number: 58200029;
2. If the product is not operated within the required load range, the product performance cannot be guaranteed to comply with all parameters in the datasheet;
3. The maximum capacitive load offered were tested at input voltage range and full load;
4. Unless otherwise specified, parameters in this datasheet were measured under the conditions of Ta=25°C, humidity<75%RH with nominal input voltage and rated output load;
5. All index testing methods in this datasheet are based on our Company's corporate standards;
6. We can provide product customization service, please contact our technicians directly for specific information;
7. Specifications are subject to change without prior notice.

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Product	Code	Reference	Product link
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Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 12(±10%)V, 3,3Vdc, 1 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	B1203LS1WR2	B1203LS-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 24(±10%)V, 9Vdc, 1 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	B2409LS1WR2	B2409LS-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 5(±10%)V, 5Vdc, 1 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	B0505LS1WR2	B0505LS-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 1 Outputs, Format 1500, SIP Vac	B1205LS1WR	B1205LS-1WR	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 2 Outputs, Format 1500, SIP Vac	A0512S1WR	A0512S-1WR	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 24(±10%)V, 3,3Vdc, 1 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	B2403LS1WR2	B2403LS-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 5(±10%)V, ±9Vdc, 2 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	A0509S1WR2	A0509S-1WR2	Buy on EAN

Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 9($\pm 10\%$)V, ± 9 Vdc, 2 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	A0909S1WR2	A0909S-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 5($\pm 10\%$)V, 3,3Vdc, 1 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	B0503LS1WR2	B0503LS-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 12($\pm 10\%$)V, ± 15 Vdc, 2 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	A1215S1WR2	A1215S-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 5($\pm 10\%$)V, ± 5 Vdc, 2 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	A0505S1WR2	A0505S-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 15($\pm 10\%$)V, ± 12 Vdc, 2 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	A1512S1WR2	A1512S-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 1 Outputs, Format 1500, SIP Vac	B0515LS1W	B0515LS-1W	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 24($\pm 10\%$)V, ± 5 Vdc, 2 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	A2405S1WR2	A2405S-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 12($\pm 10\%$)V, ± 9 Vdc, 2 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	A1209S1WR2	A1209S-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 24($\pm 10\%$)V, 24Vdc, 1 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	B2424LS1WR2	B2424LS-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 12($\pm 10\%$)V, ± 24 Vdc, 2 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	A1224S1WR2	A1224S-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 5($\pm 10\%$)V, $\pm 3,3$ Vdc, 2 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	A0503S1WR2	A0503S-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 12($\pm 10\%$)V, 12Vdc, 1 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	B1212LS1WR2	B1212LS-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 24($\pm 10\%$)V, ± 24 Vdc, 2 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	A2424S1WR2	A2424S-1WR2	Buy on EAN

Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 2 Outputs, Format 1500, SIP Vac	A2415S1W	A2415S-1W	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 12($\pm 10\%$)V, $\pm 3,3$ Vdc, 2 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	A1203S1WR2	A1203S-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 5($\pm 10\%$)V, 15Vdc, 1 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	B0515LS1WR2	B0515LS-1WR2	Buy on EAN
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Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 5($\pm 10\%$)V, 9Vdc, 1 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	B0509LS1WR2	B0509LS-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 24($\pm 10\%$)V, ± 9 Vdc, 2 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	A2409S1WR2	A2409S-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 24($\pm 10\%$)V, ± 15 Vdc, 2 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	A2415S1WR2	A2415S-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 12($\pm 10\%$)V, ± 12 Vdc, 2 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	A1212S1WR2	A1212S-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 12($\pm 10\%$)V, 5Vdc, 1 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	B1205LS1WR2	B1205LS-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 5($\pm 10\%$)V, ± 15 Vdc, 2 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	A0515S1WR2	A0515S-1WR2	Buy on EAN
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Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 5($\pm 10\%$)V, ± 24 Vdc, 2 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	A0524S1WR2	A0524S-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 1 Outputs, Format 1500, SIP Vac	B2409LS1W	B2409LS-1W	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 15($\pm 10\%$)V, 15Vdc, 1 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	B1515LS1WR2	B1515LS-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 24($\pm 10\%$)V, 12Vdc, 1 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	B2412LS1WR2	B2412LS-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 24($\pm 10\%$)V, 15Vdc, 1 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	B2415LS1WR2	B2415LS-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 1 Outputs, Format 1500, SIP Vac	B0512LS1WR	B0512LS-1WR	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 12($\pm 10\%$)V, 9Vdc, 1 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	B1209LS1WR2	B1209LS-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 3,3($\pm 10\%$)V, 5Vdc, 1 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	B0305LS1WR2	B0305LS-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 1 Outputs, Format 1500, SIP Vac	B0505LS1WR	B0505LS-1WR	Buy on EAN
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Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 15($\pm 10\%$)V, 5Vdc, 1 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	B1505LS1WR2	B1505LS-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 9($\pm 10\%$)V, ± 15 Vdc, 2 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	A0915S1WR2	A0915S-1WR2	Buy on EAN

Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 12($\pm 10\%$)V, 15Vdc, 1 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	B1215LS1WR2	B1215LS-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 15($\pm 10\%$)V, ± 5 Vdc, 2 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	A1505S1WR2	A1505S-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 5($\pm 10\%$)V, ± 12 Vdc, 2 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	A0512S1WR2	A0512S-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 5($\pm 10\%$)V, 12Vdc, 1 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	B0512LS1WR2	B0512LS-1WR2	Buy on EAN
Converter DC/DC, Fixed Entry, Isolated, Unregulated Output, 1W, 24($\pm 10\%$)V, ± 12 Vdc, 2 Outputs, Format 1500, SIP Vac, 19,5*9,3*6,0 (mm)	A2412S1WR2	A2412S-1WR2	Buy on EAN