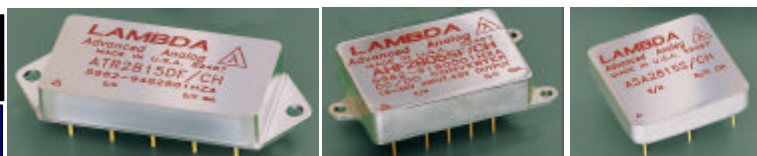


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HYBRID DC/DC CONVERTERS



Model	SMD	Pout	Vout	Vin	N/O	Max. Reg.	Typical Ripple	Typ. Efficiency	Package (F=Flange)	Weight (gm)
ASA2805S	5962-94629	5	5V, 1A	16-40	1	±1%	125mV _{p-p}	70%	1.065 x 1.075 x 0.27	20
ASA2812S	5962-94631	5	12V, 0.417A	16-40	1	±1%	50mV _{p-p}	74%		20
ASA2815S	5962-94630	5	15V, 0.333A	16-40	1	±1%	100mV _{p-p}	74%		20
ASA2805D	N/A	5	±5V, ±0.25A	16-40	2	±1%	250mV _{p-p}	70%		20
ASA2812D	5962-95648	5	±12V, ±0.208A	16-40	2	±1%	125mV _{p-p}	72%		20
ASA2815D	5962-94649	5	±15V, ±0.167A	16-40	2	±1%	125mV _{p-p}	72%		20
AHF2805S	5962-91600	12	5V, 2.4A	16-40	1	±1%	25mV _{p-p}	78%	1.45 x 1.125 x 0.33 1.91 x 1.125 x 0.33 (F)	35
AHF2812S	5962-94568	12	12V, 1A	16-40	1	±1%	25mV _{p-p}	80%		35
AHF2815S	5962-94563	12	15V, 0.3A	16-40	1	±1%	25mV _{p-p}	80%		35
AHF2805D	N/A	12	±5V, ±1.2A	16-40	2	±1%	25mV _{p-p}	78%		35
AHF2812D	5962-92111	12	±12V, ±0.50A	16-40	2	±1%	25mV _{p-p}	80%		35
AHF2815D	5962-92351	12	±15V, ±0.40A	16-40	2	±1%	25mV _{p-p}	80%		35
AHF2815T*	5962-94623	8	5V, 1A and ±15V, ±0.10A	16-40	3	±1%	50mV _{p-p} (Main) 100mV _{p-p} (Dual)	75%	1.45 x 1.125 x 0.33	35
AHE2805S	5962-89683	15	5V, 3A	17-40	1	±1%	20mV _{p-p}	82%	2.11 x 1.12 x 0.495 2.87 x 1.12 x 0.495(F)	65
AHE2812S	5962-91580	20	12V, 1.667A	17-40	1	±1%	30mV _{p-p}	83%		65
AHE2815S	5962-91625	20	15V, 1.333A	17-40	1	±1%	30mV _{p-p}	84%		65
AHE2805D	N/A	15	±5V, ±1.5A	17-40	2	±1%	25mV _{p-p}	78%		65
AHE2812D	5962-92040	15	±12V, ±0.625A	17-40	2	±1%	25mV _{p-p}	82%		65
AHE2815D	5962-91575	15	±15V, ±0.50A	17-40	2	±1%	25mV _{p-p}	82%		65
AHV2805S	5962-91773	15	5V, 3A	16-40	1	±1%	20mV _{p-p}	76%	2.88 x 1.12 x 0.405(F)	60
AHV2812S	5962-92112	15	12V, 1.25A	16-40	1	±1%	30mV _{p-p}	76%		60
AHV2815S	5962-92113	15	15V, 1.0A	16-40	1	±1%	30mV _{p-p}	76%		60
AHV2812D	5962-92114	15	±12V, ±0.625A	16-40	2	±1%	30mV _{p-p}	76%		60
AHV2815D	5962-91774	15	±15V, ±0.50A	16-40	2	±1%	30mV _{p-p}	76%		60
AHV2812T	5962-92115	15	5V, 2A and 12V, 0.208A or 15V, 0.167A	16-40	3	±1%	40mV _{p-p} (Main) 30mV _{p-p} (Dual) 30mV _{p-p} (Dual)	76%	2.70 x 1.35 x 0.5(F)	60
AHV2815T	5962-92116	15		16-40	3	±1%		76%		60
ATO2812T	5962-91602	15	5V, 2A and ±12V, ±0.208A or ±15V, ±0.167A	16-40	3	±1%	40mV _{p-p} (Main) 25mV _{p-p} (Dual) 25mV _{p-p} (Dual)	78%	1.95 x 1.35 x 0.5 2.70 x 1.35 x 0.5(F)	73
ATO2815T	5962-90954	15			3	±0.5%		78%		73
ATR2805S	5962-94624	30	5V, 6A	16-40	1	±1%	20mV _{p-p}	78%	2.12 x 1.12 x 0.405 2.87 x 1.12 x 0.405(F)	58
ATR2812S	5962-94625	30	12V, 2.5A	16-40	1	±1%	25mV _{p-p}	80%		58
ATR2815S	5962-94626	30	15V, 2A	16-40	1	±1%	25mV _{p-p}	80%		58
ATR2812D	5962-94627	30	±12V, ±1.250A	16-40	2	±1%	25mV _{p-p}	80%		58
ATR2815D	5962-94628	30	±15V, ±0.1A	16-40	2	±1%	25mV _{p-p}	80%		58
ATR2812T	5962-93158	30	5V, 3A and ±12V, ±0.625A or ±15V, ±0.5A	16-40	3	±1%	30mV _{p-p} (Main) 25mV _{p-p} (Dual) 25mV _{p-p} (Dual)	76%	1.95 x 1.345 x .405 2.7 x 1.345 x 0.410(F)	58
ATR2815T	5962-92159	30		16-40	3	±1%		76%		58
ATW2805S	5962-91579	30	5V, 6A	19-40	1	±1%	15mV _{p-p}	81%	2.7 x 1.35 x 0.5(F)	75
ATW2812S	5962-92110	30	12V, 2.5A	19-40	1	±1%	15mV _{p-p}	82%		75
ATW2815S	5962-91599	30	15V, 2A	19-40	1	±1%	15mV _{p-p}	83%		75
ATW2805D	N/A	30	±5V, ±3A	19-40	2	±1%	35mV _{p-p}	80%		75
ATW2812D	5962-92109	30	±12V, ±1.25A	19-40	2	±1%	35mV _{p-p}	83%		75
ATW2815D	5962-91613	30	±15V, ±1A	19-40	2	±1%	45mV _{p-p}	83%		75
ATW2824D	5962-95645	30	±24V, ±.625A	19-40	2	±1%	300mV _{p-p}	80%		75
ATW2870D	5962-95644	30	±40V, ±.214A	19-40	2	±1%	300mV _{p-p}	80%		75

LEGEND

SMD = Standard Military Drawing
P_{OUT} = Total Output (W)
V_{OUT} = Output Voltage Range (V)
V_{IN} = Input Voltage Range (V)
N/O = Number of Outputs
Reg = Load Regulation





POWER PRODUCT GUIDE

MIL-PRF-38534 APPROVED & ISO 9001 CERTIFIED
NO-RISK CONVERTERS FOR HIGH-RISK ENVIRONMENTS

2270 Martin Ave, Santa Clara, CA 95050-2781
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HYBRID DC/DC CONVERTERS (High-Power Solutions)

Model	SMD	Pout	Vout	Vin	N/O	Max. Reg.	Typical Ripple	Typ. Efficiency	Package (F=Flange)	Weight (gm)
AFL2805S*	5962-94721	80	5V, 16A	16-40	1	±2%	15mV _{p-p}	75%	3.0 x 1.55 x 0.375	95
AFL2808S*	5962-96659	80	8V, 13.5A	16-40	1	±2%	40mV _{p-p}	82%		95
AFL2809S	N/A	90	9V, 10A	16-40	1	±2%	40mV _{p-p}	82%		95
AFL2812S*	5962-94722	108	12V, 9A	16-40	1	±2%	25mV _{p-p}	83%		95
AFL2815S*	5962-94723	120	15V, 8A	16-40	1	±2%	25mV _{p-p}	84%		95
AFL2828S*	5962-96899	112	28V, 4A	16-40	1	±2%	100mV _{p-p}	85%		95
AFL2805D*	5962-95795	80	±5V, 12.8A	16-40	2	±2%	60mV _{p-p}	81%		95
AFL2812D*	5962-95796	96	±12V, ±4.16A	16-40	2	±2%	35mV _{p-p}	83%		95
AFL2815D*	5962-94724	100	±15V, ±3.33A	16-40	2	±2%	35mV _{p-p}	83%		95
AFL120XXS	N/A	80-120	5-28V, 4-16A	85-200	1	±2%	15-70mV _{p-p}	87%	3.0 x 1.55 x 0.375	95
AFL27005S*	5962-94569	80	5V, 16A	160-400	1	±2%	15mV _{p-p}	82%	3.0 x 1.55 x 0.375	95
AFL27006S*	5962-95534	81	6V, 13.5A	160-400	1	±2%	20mV _{p-p}	83%		95
AFL27009S*	5962-95535	90	9V, 10A	160-400	1	±2%	25mV _{p-p}	84%		95
AFL27012S*	5962-94753	108	12V, 9A	160-400	1	±2%	25mV _{p-p}	85%		95
AFL27015S*	5962-94570	120	15V, 8A	160-400	1	±2%	25mV _{p-p}	84%		95
AFL27028S*	5962-95565	112	28V, 4A	160-400	1	±2%	70mV _{p-p}	85%		95
AFL27005D*	5962-95501	80	±5V, 12.8A	160-400	2	±2%	60mV _{p-p}	82%		95
AFL27012D	N/A	96	±12V, ±6.4A	160-400	2	±2%	35mV _{p-p}	85%		95
AFL27015D*	5962-95532	100	±15V, ±5.3A	160-400	2	±2%	35mV _{p-p}	87%		95

* At the time of publication, DSCC approval of these devices was pending. Consult factory for current status.

HYBRID DC/DC CONVERTERS FOR SPACE APPLICATIONS (Over 100 Krad)

Model	SMD	Pout	Vout	Vin	N/O	Max. Reg.	Typical Ripple	Typ. Efficiency	Package (F=Flange)	Weight (gm)
ART2812T	Rad Hard Over 100 Krad	3-30	5V, 3A and	19-50	3	±5% (Main)	50mV _{p-p}	80%	2.7 x 2.2 x 0.5	120
ART2815T			+12V, ±0.9A +15V, ±0.750A		3	±5% (Dual)	50mV _{p-p}	80%		120
ARH2803S	Rad Hard	30	3.3V, 9A	18-50	1	±2%	20mV _{p-p}	70%	2.7 x 2.2 x 0.5	120
ARH2805S	Rad Hard	30	5V, 6A	18-50	1	±2%	30mV _{p-p}	80%		120
ARH2812S	Rad Hard	30	12V, 2.5A	18-50	1	±2%	30mV _{p-p}	81%		120
ARH2815S	Rad Hard	30	15V, 2A	18-50	1	±2%	30mV _{p-p}	82%		120
ARH2805D	Rad Hard	30	±5V, ±3A	18-50	2	±2%	25mV _{p-p}	80%		120
ARH2812D	Rad Hard	30	±12V, ±1.25A	18-50	2	±2%	50mV _{p-p}	81%		120
ARH2815D	Rad Hard	30	±15V, ±1A	18-50	2	±2%	50mV _{p-p}	82%		120

HYBRID EMI Filters (Meet MIL-STD-461, CEO3)

Filter	SID	Compatibility	Input Voltage Range	Input current	Noise Reduction	Package (F = Flange) (N = Non-Flange)	Weight (gm)
AFC461	91020	ATW, AHF, AHV ATR, ATO, AHE	0-40	4A(max.)	40dB	2.12 x 1.12 x 0.38 2.87 x 1.12 x 0.38(F)	60
AFV461	91020	AHV, ATW, AHF ATR, ATO, AHE	0-80	4A (max.)	40dB	2.12 x 1.12 x 0.38 2.87 x 1.12 x 0.38(F)	39 45
ASF461	N/A	ASA, AHF	0-50	920mA (max.)	40dB	1.075 x 1.075 x 0.37	26
AME28-461	N/A	AFL28XX	0-40	15A	500KHz-1MHz>30dB	3.0 x 1.55 x 0.375	80
AME270-461	N/A	AFL270XX	0-400	1.5A	1-50MHz>60dB		80
AFM704A	95010	All Converter Except AFL Series	0-40 400 (Transient)	5mA (No Load) 2mA (Inhibit)	100KHz>40dB 200KHz-50MHz>50dB	2.12 x 1.12 x 0.38(N) 2.87 x 1.11 x 0.38(F)	65