



High Reliability DC-DC Converters Selection Guide

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Content

Space DC-DC Converters	4
DC-DC Point of Load, Non-Isolated	7
Standard DC-DC Converters	8
High Temperature DC-DC Converters	11
Hybrid EMI Filters	11
Space DC-DC Converter Nomenclatures	12
Standard DC-DC Converter Nomenclature	14
High Temperature DC-DC Converter Nomenclature	14

Space DC-DC Converters

TID>25 krad(Si), SEE>37MeVcm²/mg, MIL-STD-461 compliant filter included.

	Part Number	DLA SMD Part Number	P _{out} (W)	V _{out} (V)	I _{out} (Min./Max.) (A)	V _{in} (V)	Package Dimensions (inches)
Single	M3H2803R3S	-	30	3.3	9.1	18-60	3.0 x 2.05 x 0.405
	M3H2805S	-	40	5	8	18-60	3.0 x 2.05 x 0.405
	M3H2805R2S	-	40	5.2	7.69	18-60	3.0 x 2.05 x 0.405
	M3H2812S	-	40	12	3.34	18-60	3.0 x 2.05 x 0.405
	M3H2815S	-	40	15	2.67	18-60	3.0 x 2.05 x 0.405
	M3L2803R3S	-	20	3.3	6.06	18-60	2.3 x 1.5 x 0.405
	M3L2805S	-	25	5	5	18-60	2.3 x 1.5 x 0.405
	M3L2812S	-	25	12	2.08	18-60	2.3 x 1.5 x 0.405
	M3L2815S	-	25	15	1.67	18-60	2.3 x 1.5 x 0.405
Dual	M3H2805D	-	40	±5	1.6/6.4*	18-60	3.0 x 2.05 x 0.405
	M3H2812D	-	40	±12	.66/2.67*	18-60	3.0 x 2.05 x 0.405
	M3H2815D	-	40	±15	.53/2.13*	18-60	3.0 x 2.05 x 0.405
	M3L2805D	-	25	±5	1/4*	18-60	2.3 x 1.5 x 0.405
	M3L2812D	-	25	±12	.417/1.67*	18-60	2.3 x 1.5 x 0.405
	M3L2815D	-	25	±15	.33/1.33*	18-60	2.3 x 1.5 x 0.405
Triple	M3H280505T	-	40	+5, ±5	4, ±2	18-60	3.0 x 2.05 x 0.405
	M3H280512T	-	40	+5, ±12	4, ±0.833	18-60	3.0 x 2.05 x 0.405
	M3H280515T	-	40	+5, ±15	4, ±0.667	18-60	3.0 x 2.05 x 0.405

TID>25 krad(Si), SEE>60MeVcm²/mg

	Part Number	DLA SMD Part Number	P _{out} (W)	V _{out} (V)	I _{out} (Min./Max.) (A)	V _{in} (V)	Package Dimensions (inches)
Single	AMA2805S	5962-04247	5	5	1	16-40	1.13 x 1.13 x 0.33
	AMA2812S	5962-04248	5	12	0.416	16-40	1.13 x 1.13 x 0.33
	AMA2815S	5962-04249	5	15	0.333	16-40	1.13 x 1.13 x 0.33
	AMF2803R3S	-	10	3.3	3	16-40	1.6 x 1.38 x 0.33
	AMF2805S	5962-04252	12	5	2.4	16-40	1.6 x 1.38 x 0.33
	AMF2807R5S	-	12	7.5	1.6	16-40	1.6 x 1.38 x 0.33
	AMF2812S	5962-04253	12	12	1	16-40	1.6 x 1.38 x 0.33
	AMF2815S	5962-04254	12	15	0.8	16-40	1.6 x 1.38 x 0.33
	Dual	AMA2805D	-	5	±5	.2/.8*	16-40
AMA2812D		5962-04250	5	±12	.083/.333*	16-40	1.13 x 1.13 x 0.33
AMA2815D		5962-04251	5	±15	.067/.267*	16-40	1.13 x 1.13 x 0.33
AMF2805D		-	12	±5	.24/2.16*	16-40	1.6 x 1.38 x 0.33
AMF2812D		5962-05222	12	±12	.1/.9*	16-40	1.6 x 1.38 x 0.33
AMF2815D		5962-05223	12	±15	.08/.72*	16-40	1.6 x 1.38 x 0.33
AMR2805D		-	30	±5	.6/5.4*	16-40	2.14 x 1.53 x 0.41
AMR2812D		-	30	±12	.25/2.25*	16-40	2.14 x 1.53 x 0.41
AMR2815D		-	30	±15	.2/1.8*	16-40	2.14 x 1.53 x 0.41

TID>50 krad(Si), SEE>40 MeVcm²/mg

	Part Number	DLA SMD Part Number	P _{out} (W)	V _{out} (V)	I _{out} (Min./Max.) (A)	V _{in} (V)	Package Dimensions (inches)
Dual	D5001R803R3P	-	7.7	1.8, +3.3	1.5/ 1.5	26-55	1.8 x 1.4 x 0.42
	D2805D	-	10	±5.0	1	18-50	1.8 x 1.4 x 0.42
	D2812D	-	10	±12.0	0.42	18-50	1.8 x 1.4 x 0.42
	D2815D	-	10	±15.0	0.33	18-50	1.8 x 1.4 x 0.42

Note 1: Consult Factory for other input voltages.

Note 2: Dimensions exclude mounting tabs and input/output pins. Please refer to data sheets for detailed case outline information.

DLA: DLA Land and Maritime (formerly DSCC)

* Either output is capable of providing up to the max. current specified so long as the other output is limited to min. current.

TID>100 krad(Si), SEE>82 MeVcm²/mg, MIL-STD-461 compliant filter included for LS and LSO series.
LSO series also includes OVP and input current telemetry.

	Part Number	DLA SMD Part Number	P _{out} (W)	V _{out} (V)	I _{out} (Min./Max.) (A)	V _{in} (V)	Package Dimensions (inches)
Single	LS2801R5S	5962-05238	12	1.5	8	18-40	2.30 x 1.50 x 0.425
	LS2802R5S	-	20	2.5	8	18-40	2.30 x 1.50 x 0.425
	LS2803R3S	5962-05239	25	3.3	7.57	18-40	2.30 x 1.50 x 0.425
	LS2805S	5962-05240	30	5	6	18-40	2.30 x 1.50 x 0.425
	LS2812S	5962-06241	30	12	2.5	18-40	2.30 x 1.50 x 0.425
	LS2815S	5962-06242	30	15	1	18-40	2.30 x 1.50 x 0.425
	LSO2801R5S	-	12	1.5	8	18-40	3.0 x 2.05 x 0.475
	LSO2801R8S	-	14.4	1.8	8	18-40	3.0 x 2.05 x 0.475
	LSO2802R5S	-	20	2.5	8	18-40	3.0 x 2.05 x 0.475
	LSO2803R3S	-	25	3.3	7.57	18-40	3.0 x 2.05 x 0.475
	LSO2805S	-	30	5	6	18-40	3.0 x 2.05 x 0.475
	LSO2812S	-	30	12	2.5	18-40	3.0 x 2.05 x 0.475
	LSO2815S	-	30	15	2	18-40	3.0 x 2.05 x 0.475
	S2803R3S	5962-04238	10	3.3	3.03	18-40	1.71 x 1.31 x 0.425
	S2805S	5962-04239	10	5	2	18-40	1.71 x 1.31 x 0.425
	S2807S	5962-13216	10	7	1.43	18-40	1.71 x 1.31 x 0.425
	S2812S	5962-04240	10	12	0.833	18-40	1.71 x 1.31 x 0.425
	S2815S	5962-04241	10	15	0.67	18-40	1.71 x 1.31 x 0.425

TID>100 krad(Si), SEE>82 MeVcm²/mg, MIL-STD-461 compliant filter included for LS and LSO series.

	Part Number	DLA SMD Part Number	P _{out} (W)	V _{out} (V)	I _{out} (Min./Max.) (A)	V _{in} (V)	Package Dimensions (inches)	
Single	GH2801S	-	50	1	20	18-40	3.0 x 2.05 x 0.475	
	GH2801R5S	-	50	1.5	20	18-40	3.0 x 2.05 x 0.475	
	GH2801R8S	-	50	1.8	20	18-40	3.0 x 2.05 x 0.475	
	GH2802R5S	-	50	2.5	20	18-40	3.0 x 2.05 x 0.475	
	GH2803R3S	5962-10217	50	3.3	15.15	18-40	3.0 x 2.05 x 0.475	
	GH2805S	5962-10219	50	5	10	18-40	3.0 x 2.05 x 0.475	
	GHP2815S	-	120	15	8	18-40	3.0 x 2.05 x 0.475	
	Dual	LS2805D	5962-10224	30	±5	1.2/4.8*	18-40	2.3 x 1.50 x 0.425
		LS2812D	5962-05241	30	±12	0.5/2.0*	18-40	2.3 x 1.50 x 0.425
		LS2815D	5962-05242	30	±15	0.4/1.6*	18-40	2.3 x 1.50 x 0.425
LSO2805D		-	30	±5.0	4.8	18-40	3.0 x 2.05 x 0.475	
LSO2812D		-	30	±12.0	2.3	18-40	3.0 x 2.05 x 0.475	
LSO2815D		-	30	±15.0	1.6	18-40	3.0 x 2.05 x 0.475	
S2805D		5962-04242	10	±5	±1	18-40	1.71 x 1.31 x 0.425	
S2812D		5962-04243	10	±12	±0.417	18-40	1.71 x 1.31 x 0.425	
S2815D	5962-04244	10	±15	±0.333	18-40	1.71 x 1.31 x 0.425		

Note 1: Consult Factory for other input voltages.

Note 2: Dimensions exclude mounting tabs and input/output pins. Please refer to data sheets for detailed case outline information.

DLA: DLA Land and Maritime (formerly DSCC)

* Either output is capable of providing up to the max. current specified so long as the other output is limited to min. current.

Space DC-DC Converters

TID>200 krad(Si), SEE>82MeVcm²/mg, Neutron fluence>8E12 Neutrons/cm², Dose Rate>4E10 rads(Si)/sec, MIL-STD-461 compliant filter included. Dual output LSO series.

	Part Number	DLA SMD Part Number	P _{out} (W)	V _{out} (V)	I _{out} (Min./Max.) (A)	V _{in} (V)	Package Dimensions (inches)
Single	M3G2803R3S	5962-03218	30	3.3	9.1	18-60	3.0 x 2.05 x 0.475
	M3G2805S	5962-03219	40	5	8	18-60	3.0 x 2.05 x 0.475
	M3G2805R2S	5962-03220	40	5.2	7.69	18-60	3.0 x 2.05 x 0.475
	M3G2812S	5962-03221	40	12	3.34	18-60	3.0 x 2.05 x 0.475
	M3G2815S	5962-03222	40	15	2.67	18-60	3.0 x 2.05 x 0.475
	M3G5003R3S	-	30	3.3	9.1	38-60	3.0 x 2.05 x 0.475
	M3G5005S	-	40	5	8	38-60	3.0 x 2.05 x 0.475
	M3G5012S	-	40	12	3.34	38-60	3.0 x 2.05 x 0.475
	M3G5015S	-	40	15	2.67	38-60	3.0 x 2.05 x 0.475
	M3G7003R3S	-	30	3.3	9.1	60-120	3.0 x 2.05 x 0.475
	M3G7005S	-	40	5	8	60-120	3.0 x 2.05 x 0.475
	M3G7012S	-	40	12	3.34	60-120	3.0 x 2.05 x 0.475
	M3G7015S	-	40	15	2.67	60-120	3.0 x 2.05 x 0.475
	Dual	M3G2805D	5962-03223	40	±5	1.6/6.4*	18-60
M3G2807D		-	40	±7	1.14/4.57*	18-60	3.0 x 2.05 x 0.475
M3G2812D		5962-03224	40	±12	.66/2.67*	18-60	3.0 x 2.05 x 0.475
M3G2815D		5962-10216	40	±15	.53/2.13*	18-60	3.0 x 2.05 x 0.475
M3G5005D		-	40	±5	1.6/6.4*	38-60	3.0 x 2.05 x 0.475
M3G5012D		-	40	±12	.66/2.67*	38-60	3.0 x 2.05 x 0.475
M3G5015D		-	40	±15	.53/2.13*	38-60	3.0 x 2.05 x 0.475
M3G7005D		-	40	±5	1.6/6.4*	60-120	3.0 x 2.05 x 0.475
M3G7012D		-	40	±12	.66/2.67*	60-120	3.0 x 2.05 x 0.475
M3G7015D		-	40	±15	.53/2.13*	60-120	3.0 x 2.05 x 0.475
Triple	M3G2803R305R4T	-	35	3.3, ±5.4	5.3, ±1.62	18-50	3.0 x 2.05 x 0.475
	M3G2803R312T	5962-11221	40	+3.3, ±12	4, ±0.833	18-60	3.0 x 2.05 x 0.475
	M3G280512T	5962-03226	40	+5, ±12	4, ±0.833	18-60	3.0 x 2.05 x 0.475
	M3G280515T	5962-03227	40	+5, ±15	4, ±0.667	18-60	3.0 x 2.05 x 0.475
	M3G500512T	-	40	+5, ±12	4, ±0.833	38-60	3.0 x 2.05 x 0.475
	M3G500515T	-	40	+5, ±15	4, ±0.667	38-60	3.0 x 2.05 x 0.475
	M3G700505T	-	40	+5, ±5	4, ±2	60-120	3.0 x 2.05 x 0.475
	M3G700512T	-	40	+5, ±12	4, ±0.833	60-120	3.0 x 2.05 x 0.475
	M3G700515T	-	40	+5, ±15	4, ±0.667	60-120	3.0 x 2.05 x 0.475

TID>100 krad(Si), SEE>83MeVcm²/mg, Dose Rate>1E11 rads(Si)/sec

	Part Number	DLA SMD Part Number	P _{out} (W)	V _{out} (V)	I _{out} (Min./Max.) (A)	V _{in} (V)	Package Dimensions (inches)
Single	ARH2802R5S	-	30	2.5	12	19-60	2.7 x 1.675 x 0.5
	ARH2803R3S	5962-04233	30	3.3	9	19-60	2.7 x 1.675 x 0.5
	ARH2805S	5962-04232	30	5	6	19-60	2.7 x 1.675 x 0.5
	ARH2805R2S	-	30	5.2	5.7	19-60	2.7 x 1.675 x 0.5
	ARH2812S	-	30	12	2.5	19-60	2.7 x 1.675 x 0.5
	ARH2815S	-	30	15	2	19-60	2.7 x 1.675 x 0.5

Note 1: Consult Factory for other input voltages.

Note 2: Dimensions exclude mounting tabs and input/output pins. Please refer to data sheets for detailed case outline information.

DLA: DLA Land and Maritime (formerly DSCC)

* Either output is capable of providing up to the max. current specified so long as the other output is limited to min. current.

TID>200 krad(Si), SEE>83MeVcm²/mg, Neutron fluence>8E12 Neutrons/cm², Dose Rate>4E10 rads(Si)/sec

	Part Number	DLA SMD Part Number	P _{OUT} (W)	V _{OUT} (V)	I _{OUT} (Min./Max.) (A)	V _{IN} (V)	Package Dimensions (inches)
Triple	ART2812T	5962-04234	30	+5, ±12	3, ±0.625	19-50	2.7 x 1.675 x 0.5
	ART2815T	5962-04237	30	+5, ±15	3, ±0.5	19-50	2.7 x 1.675 x 0.5

TID>1000 krad(Si), SEE>83MeVcm²/mg, Neutron fluence>3E12 Neutrons/cm², Dose Rate>1E11 rads(Si)/sec

	Part Number	DLA SMD Part Number	P _{OUT} (W)	V _{OUT} (V)	I _{OUT} (Min./Max.) (A)	V _{IN} (V)	Package Dimensions (inches)
Triple	ARM2812T	-	30	+5, ±12	3, ±0.625	19-50	2.7 x 1.675 x 0.5
	ARM2815T	-	30	+5, ±15	3, ±0.5	19-50	2.7 x 1.675 x 0.5

DC-DC Point of Load, Non-Isolated

TID>100 krad(Si), SEE>82MeVcm²/mg

	Part Number	DLA SMD Part Number	P _{OUT} (W)	V _{OUT} (V)	I _{OUT} (Min./Max.) (A)	V _{IN} (V)	Package Dimensions (inches)
Single	SBB501S	5962-1120601	14	1	14	4.5-5.5	1.90 x 1.50 x 0.335
	SBB501R2S	5962-1120602	16.8	1.2	14	4.5-5.5	1.90 x 1.50 x 0.335
	SBB501R5S	5962-1120603	21	1.5	14	4.5-5.5	1.90 x 1.50 x 0.335
	SBB501R8S	5962-1120604	25.2	1.8	14	4.5-5.5	1.90 x 1.50 x 0.335
	SBB502R5S	5962-1120605	30	2.5	12	4.5-5.5	1.90 x 1.50 x 0.335
	SBB503R3S	5962-1120606	30	3.3	9.09	4.5-5.5	1.90 x 1.50 x 0.335

Note 1: Consult Factory for other input voltages.

Note 2: Dimensions exclude mounting tabs and input/output pins. Please refer to data sheets for detailed case outline information.

DLA: DLA Land and Maritime (formerly DSCC)

* Either output is capable of providing up to the max. current specified so long as the other output is limited to min. current.

Standard DC-DC Converters

-55°C to +125°C Operations

	Part Number	DLA SMD Part Number	P _{OUT} (W)	V _{OUT} (V)	I _{OUT} (Min./Max.) (A)	V _{IN} (V)	Package Dimensions (inches)
28V Nominal Input							
Single	AFL2803R3S	5962-99552	66	3.3	20	16-40	2.5 x 1.5 x 0.38
	AFL2805S	5962-94721	80	5	16	16-40	2.5 x 1.5 x 0.38
	AFL2807S	-	80	7	11.4	16-40	2.5 x 1.5 x 0.38
	AFL2808S	5962-96659	80	8	10	16-40	2.5 x 1.5 x 0.38
	AFL2809S	-	90	9	10	16-40	2.5 x 1.5 x 0.38
	AFL2812S	5962-94722	108	12	9	16-40	2.5 x 1.5 x 0.38
	AFL2815S	5962-94723	120	15	8	16-40	2.5 x 1.5 x 0.38
	AFL2828S	5962-96899	112	28	4	16-40	2.5 x 1.5 x 0.38
	AHE2805S	5962-89683	15	5	3	17-40	2.12 x 1.12 x 0.495
	AHE2812S	5962-91580	20	12	1.667	17-40	2.12 x 1.12 x 0.495
	AHE2815S	5962-91625	20	15	1.333	17-40	2.12 x 1.12 x 0.495
	AHF2803R3S	-	9.9	3.3	3	16-40	1.45 x 1.12 x 0.33
	AHF2805S	5962-91600	12	5	2.4	16-40	1.45 x 1.12 x 0.33
	AHF2812S	5962-94568	12	12	1	16-40	1.45 x 1.12 x 0.33
	AHF2815S	5962-94563	12	15	0.8	16-40	1.45 x 1.12 x 0.33
	AHP2803R3S	-	66	3.3	20	160-400	2.5 x 1.5 x 0.38
	AHP2805S	-	80	5	16	160-400	2.5 x 1.5 x 0.38
	AHP2806S	-	80	6	13.5	160-400	2.5 x 1.5 x 0.38
	AHP2809S	-	90	9	10	160-400	2.5 x 1.5 x 0.38
	AHP2812S	-	108	12	9	160-400	2.5 x 1.5 x 0.38
	AHP2815S	-	120	15	8	160-400	2.5 x 1.5 x 0.38
	AHP2828S	-	112	28	4	160-400	2.5 x 1.5 x 0.38
	AHV2805S	5962-91773	15	5	3	16-40	2.12 x 1.12 x 0.405
	AHV2812S	5962-92112	15	12	1.25	16-40	2.12 x 1.12 x 0.405
	AHV2815S	5962-92113	15	15	1	16-40	2.12 x 1.12 x 0.405
	ASA2805S	5962-94629	5	5	1	16-40	1.075 x 1.075 x 0.27
	ASA2812S	5962-94631	5	12	0.417	16-40	1.075 x 1.075 x 0.27
	ASA2815S	5962-94630	5	15	0.333	16-40	1.075 x 1.075 x 0.27
	ASAP2805S	-	6	5	1.2	16-40	1.075 x 1.075 x 0.27
	ASAP2812S	-	6	12	0.5	16-40	1.075 x 1.075 x 0.27
	ASAP2815S	-	6	15	0.4	16-40	1.075 x 1.075 x 0.27
	ATR2803R3S	-	25	3.3	7.5	16-40	2.12 x 1.12 x 0.405
	ATR2805S	5962-94624	30	5	6	16-40	2.12 x 1.12 x 0.405
ATR2812S	5962-94625	30	12	2.5	16-40	2.12 x 1.12 x 0.405	
ATR2815S	5962-94626	30	15	2	16-40	2.12 x 1.12 x 0.405	
ATS2803R3S	-	20	3.3	6.06	18-50	2.3 x 1.5 x 0.405	
ATS2805S	-	25	5	5	18-50	2.3 x 1.5 x 0.405	
ATS2812S	-	25	12	2.08	18-50	2.3 x 1.5 x 0.405	
ATS2815S	-	25	15	1.67	18-50	2.3 x 1.5 x 0.405	
ATW2805S	5962-91579	30	5	6	19-40	1.95 x 1.35 x 0.5	
ATW2812S	5962-92110	30	12	2.5	18-40	1.95 x 1.35 x 0.5	
ATW2815S	5962-91599	30	15	2	17-40	1.95 x 1.35 x 0.5	
50V Nominal Input							
Single	AFL5003R3S	5962-02556	66	3.3	20	30-80	2.5 x 1.5 x 0.38
	AFL5005S	5962-02557	80	5	16	30-80	2.5 x 1.5 x 0.38
	AFL5008S	5962-02558	80	8	10	30-80	2.5 x 1.5 x 0.38
	AFL5009S	5962-02559	90	9	10	30-80	2.5 x 1.5 x 0.38
	AFL5012S	5962-02560	108	12	9	30-80	2.5 x 1.5 x 0.38
	AFL5015S	5962-02561	120	15	8	30-80	2.5 x 1.5 x 0.38
	AFL5028S	5962-02562	112	28	4	30-80	2.5 x 1.5 x 0.38

Note 2: Dimensions exclude mounting tabs and input/output pins. Please refer to data sheets for detailed case outline information.
DLA: DLA Land and Maritime (formerly DSSC)

-55°C to +125°C Operations

	Part Number	DLA SMD Part Number	P _{OUT} (W)	V _{OUT} (V)	I _{OUT} (Min./Max.) (A)	V _{IN} (V)	Package Dimensions (Inches)	
120V Nominal Input								
Single	AFL12003R3S	5962-02548	66	3.3	20	80-160	2.5 x 1.5 x 0.38	
	AFL12005S	5962-99608	80	5	16	80-160	2.5 x 1.5 x 0.38	
	AFL12007R5S	-	80	7.5	10.6	80-160	2.5 x 1.5 x 0.38	
	AFL12008S	5962-02549	80	8	10	80-160	2.5 x 1.5 x 0.38	
	AFL12009S	5962-02550	90	9	10	80-160	2.5 x 1.5 x 0.38	
	AFL12012S	5962-02551	108	12	9	80-160	2.5 x 1.5 x 0.38	
	AFL12015S	5962-02552	120	15	8	80-160	2.5 x 1.5 x 0.38	
	AFL12028S	5962-99608	112	28	4	80-160	2.5 x 1.5 x 0.38	
270V Nominal Input								
Single	AFL27003R3S	5962-99553	66	3.3	20	160-400	2.5 x 1.5 x 0.38	
	AFL27005S	5962-94569	80	5	16	160-400	2.5 x 1.5 x 0.38	
	AFL27006S	5962-95534	80	6	13.5	160-400	2.5 x 1.5 x 0.38	
	AFL27009S	5962-95535	90	9	10	160-400	2.5 x 1.5 x 0.38	
	AFL27012S	5962-94753	108	12	9	160-400	2.5 x 1.5 x 0.38	
	AFL27015S	5962-94570	120	15	8	160-400	2.5 x 1.5 x 0.38	
	AFL27028S	5962-95565	112	28	4	160-400	2.5 x 1.5 x 0.38	
	AHP27003R3S	-	66	3.3	20	160-400	2.5 x 1.5 x 0.38	
	AHP27005S	5962-05232	80	5	16	160-400	2.5 x 1.5 x 0.38	
	AHP27006S	-	80	6	13.5	160-400	2.5 x 1.5 x 0.38	
	AHP27009S	-	90	9	10	160-400	2.5 x 1.5 x 0.38	
	AHP27012S	5962-05233	108	12	9	160-400	2.5 x 1.5 x 0.38	
	AHP27015S	5962-05234	120	15	8	160-400	2.5 x 1.5 x 0.38	
	AHP27025S	5962-06231	100	25	4	160-400	2.5 x 1.5 x 0.38	
	AHP27028S	-	112	28	4	160-400	2.5 x 1.5 x 0.38	
	28V Nominal Input							
	Dual	AFL2805D	5962-95795	80	±5	3.2/12.8*	16-40	2.5 x 1.5 x 0.38
		AFL2812D	5962-95796	96	±12	1.6/6.4*	16-40	2.5 x 1.5 x 0.38
AFL2815D		5962-94724	100	±15	1.37/5.3*	16-40	2.5 x 1.5 x 0.38	
AHE2812D		5962-92040	15	±12	±0.625	17-40	2.12 x 1.12 x 0.495	
AHE2815D		5962-91575	15	±15	±0.5	17-40	2.12 x 1.12 x 0.495	
AHF2805D		-	12	±5	.24/2.16*	16-40	1.45 x 1.12 x 0.33	
AHF2812D		5962-92111	12	±12	.08/.72*	16-40	1.45 x 1.12 x 0.33	
AHF2815D		5962-92351	12	±15	.1/.9*	16-40	1.45 x 1.12 x 0.33	
AHP2805D		-	80	±5	3.2/12.8*	160-400	2.5 x 1.5 x 0.38	
AHP2812D		-	96	±12	1.6/6.4*	160-400	2.5 x 1.5 x 0.38	
AHP2815D		-	100	±15	1.37/5.3*	160-400	2.5 x 1.5 x 0.38	
AHV2812D		5962-92114	15	±12	±0.625	16-40	2.12 x 1.12 x 0.405	
AHV2815D		5962-91774	15	±15	±0.5	16-40	2.12 x 1.12 x 0.405	
ASA2805D		-	5	±5	.2/.8*	16-40	1.075 x 1.075 x 0.27	
ASA2812D		5962-95648	5	±12	.084/.333*	16-40	1.075 x 1.075 x 0.27	
ASA2815D		5962-94649	5	±15	.067/.267*	16-40	1.075 x 1.075 x 0.27	

Note 2: Dimensions exclude mounting tabs and input/output pins. Please refer to data sheets for detailed case outline information.

DLA: DLA Land and Maritime (formerly DSCC)

* Either output is capable of providing up to the max. current specified so long as the other output is limited to min. current.

Standard DC-DC Converters

-55°C to +125°C Operations

	Part Number	DLA SMD Part Number	P _{OUT} (W)	V _{OUT} (V)	I _{OUT} (Min./Max.) (A)	V _{IN} (V)	Package Dimensions (inches)
28V Nominal Input							
Dual	ASAP2805D	-	6	±5	.24/.96*	16-40	1.075 x 1.075 x 0.27
	ASAP2812D	-	6	±12	.1/.4*	16-40	1.075 x 1.075 x 0.27
	ASAP2815D	-	6	±15	.08/.32*	16-40	1.075 x 1.075 x 0.27
	ATR2812D	5962-94627	30	±12	±1.25	16-40	2.12 x 1.12 x 0.405
	ATR2815D	5962-94628	30	±15	±1	16-40	2.12 x 1.12 x 0.405
	ATS2805D	-	25	±5	1/4*	18-50	2.3 x 1.5 x 0.405
	ATS2812D	-	25	±12	.41/1.67*	18-50	2.3 x 1.5 x 0.405
	ATS2815D	-	25	±15	.34/1.33*	18-50	2.3 x 1.5 x 0.405
	ATW2812D	5962-92109	30	±12	.25/2.25*	18-40	1.95 x 1.35 x 0.5
ATW2815D	5962-91613	30	±15	.2/1.8*	18-40	1.95 x 1.35 x 0.5	
50V Nominal Input							
Dual	AFL5005D	5962-02563	80	±5	3.2/12.8*	30-80	2.5 x 1.5 x 0.38
	AFL5012D	5962-02564	96	±12	1.6/6.4*	30-80	2.5 x 1.5 x 0.38
	AFL5015D	5962-02565	100	±15	1.37/5.3*	30-80	2.5 x 1.5 x 0.38
120V Nominal Input							
Dual	AFL12005D	5962-02554	80	±5	3.2/12.8*	80-160	2.5 x 1.5 x 0.38
	AFL12012D	5962-99609	90	±12	1.6/6.4*	80-160	2.5 x 1.5 x 0.38
	AFL12015D	5962-02555	100	±15	1.37/5.3*	80-160	2.5 x 1.5 x 0.38
270V Nominal Input							
Dual	AFL27005D	5962-95501	80	±5	3.2/12.8*	160-400	2.5 x 1.5 x 0.38
	AFL27012D	5962-99518	96	±12	1.6/6.4*	160-400	2.5 x 1.5 x 0.38
	AFL27015D	5962-95532	100	±15	1.37/5.3*	160-400	2.5 x 1.5 x 0.38
	AHP27005D	5962-05235	80	±5	3.2/12.8*	160-400	2.5 x 1.5 x 0.38
	AHP27012D	-	96	±12	1.6/6.4*	160-400	2.5 x 1.5 x 0.38
	AHP27015D	-	100	±15	1.37/5.3*	160-400	2.5 x 1.5 x 0.38
28V Nominal Input							
Triple	AHV2812T	5962-92115	15	+5, ±12	2, ±0.208	16-40	2.12 x 1.12 x 0.405
	AHV2815T	5962-92116	15	+5, ±15	2, ±0.167	16-40	2.12 x 1.12 x 0.405
	ATO2812T	5962-91602	15	+5, ±12	2, ±0.208	16-40	1.95 x 1.35 x 0.5
	ATO2815T	5962-90954	15	+5, ±15	2, ±0.167	16-40	1.95 x 1.35 x 0.5
	ATR2812T	5962-93158	30	+5, ±12	3, ±0.625	16-40	2.12 x 1.12 x 0.405
	ATR2815T	5962-92159	30	+5, ±15	3, ±0.5	16-40	2.12 x 1.12 x 0.405

Note 2: Dimensions exclude mounting tabs and input/output pins. Please refer to data sheets for detailed case outline information.

DLA: DLA Land and Maritime (formerly DSCC)

* Either output is capable of providing up to the max. current specified so long as the other output is limited to min. current.

High Temperature DC-DC Converters

-35°C to +185°C Operations

	Part Number	P _{OUT} (W)	V _{OUT} (V)	I _{OUT} (Min./Max.) (A)	V _{IN} (V)	Package Dimensions* (inches)
200V Nominal Input						
Single	HTA20003R3S	20	3.3	6.1	150-250	3.805x 1.5 x 043
	HTA20005S	20	5	4	150-250	3.805x 1.5 x 043
	HTA200012S	20	12	1.67	150-250	3.805x 1.5 x 043
	HTA200015S	20	15	1.33	150-250	3.805x 1.5 x 043
Dual	HTA20005D	20	±5	0.8/3.2*	150-250	3.805x 1.5 x 043
	HTA20012D	20	±12	0.33/1.34*	150-250	3.805x 1.5 x 043
	HTA20015D	20	±15	0.27/1.06*	150-250	3.805x 1.5 x 043

-20°C to +165°C Operations

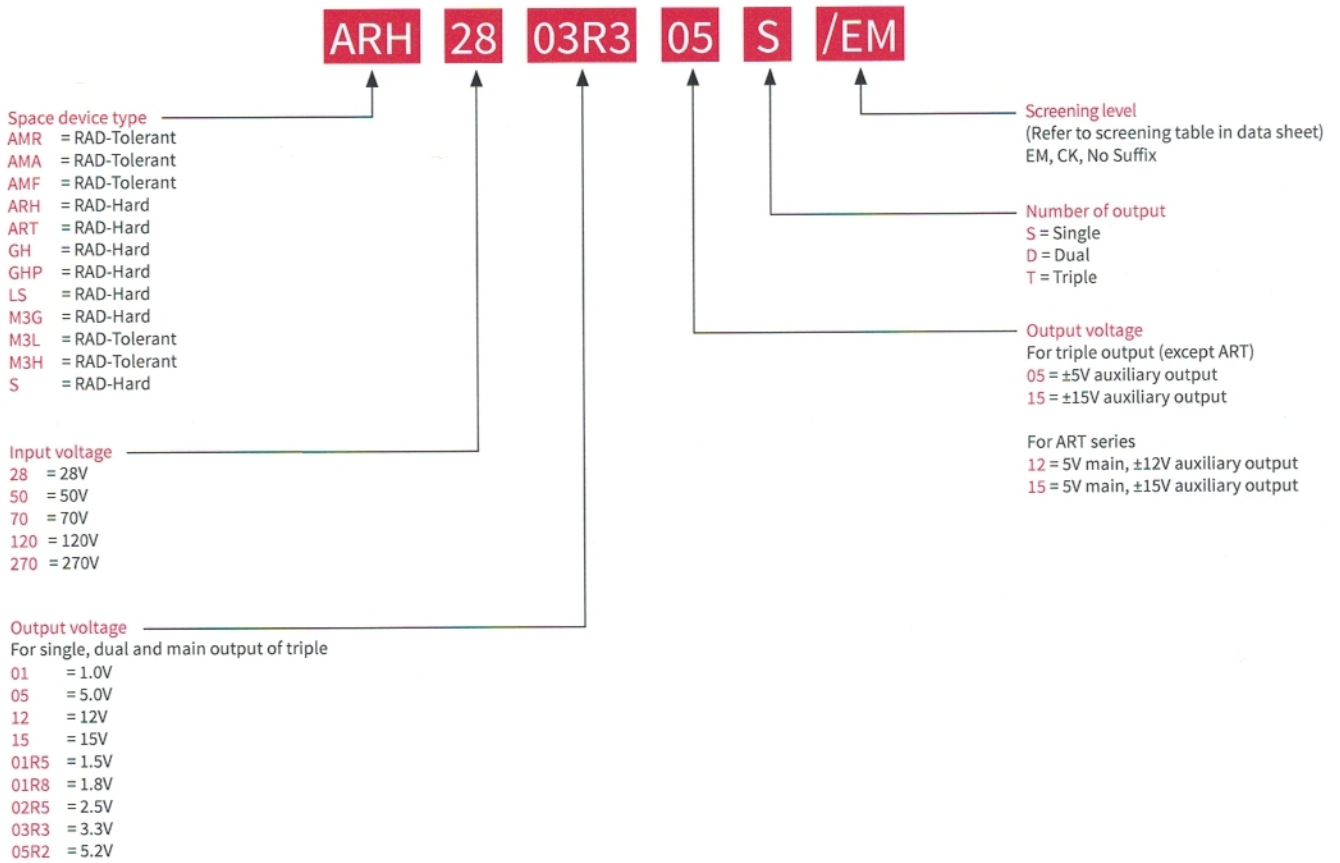
	Part Number	P _{OUT} (W)	V _{OUT} (V)	I _{OUT} (Min./Max.) (A)	V _{IN} (V)	Package Dimensions* (inches)
200V Nominal Input						
Single	HTH27022S	55	22	2.5	190-400	3.805x 1.5 x 043
	HTM27092S	92	92	1	190-400	3.805x 1.5 x 043

Hybrid EMI Filters (MIL-STD-461)

Part Number	DLA SMD Part Number	Compatible with the Following Converters	V _{IN} Range (V)	Max. Input Current (A)	Package Dimensions* (inches)
AFC461	91020-01	ATW,AHF,AHV,ATR,ATO,AHE,AMF,AMR	0-40	4	2.12 x 1.12 x 0.38
AFM704A	95010	All converters except AFL	0-40, 400 (Transient)	2.5 (@16V), 1.4 (@28V), 1.0 (@40V)	2.12 x 1.12 x 0.38
AFV461	91020-02	AHV,ATW,AHF,ATR,ATO,AHE,AMF,AMR	0-40, 80 (Transient)	4	2.12 x 1.12 x 0.38
AME270461	98026	AFL270XX, AFL120XX	0-400	1.5	2.5 x 1.5 x 0.38
AME28461	98027	AFL28XX	0-50	15	2.5 x 1.5 x 0.38
AME50461	-	AFL50XX	0-100	8	2.5 x 1.5 x 0.38
AMH461	-	AHF,ASA,AMA,AMF	0-50	2	1.45 x 1.12 x 0.331
ARF461	-	ART,ARH, S	0-80	5	1.73 x 1.67 x 0.5
ASF461	-	ASA,AHF,AMA,AMF	0-50	0.92	1.075 x 1.075 x 0.35
AFH461	-	S	0-40	2	1.45 x 1.12 x 0.331

Note 2: Dimensions exclude mounting tabs and input/output pins. Please refer to data sheets for detailed case outline information.
DLA: DLA Land and Maritime (formerly DSCC)

Space DC-DC Converter Nomenclature



D 50 01R8 03R3 P A A /EM

Model
Two outputs, 5W max each,
radiation-tolerant design

Input voltage
50 = 50V

Output 1
01 = 1.0V
01R5 = 1.5V
01R8 = 1.8V
02R5 = 2.5V
03R3 = 3.3V
05 = 5.0V

Output 2
01 = 1.0V
01R5 = 1.5V
01R8 = 1.8V
02R5 = 2.5V
03R3 = 3.3V
05 = 5.0V

Quality level
EM = Engineering Model
H = Class H per MIL-PRF-38534

Lead finish
A = Solder dipped
C = Gold plated
Blank = for EM, lead finish available

I/O Pin options
A = Straight pins
B = Down pins

Output configuration
P = Both positive

SBB 5 01 S /EM

Model
SBB = 30V

Nominal input voltage
5 = 5V

Output voltage
01 = 1.0V
01R2 = 1.2V
01R5 = 1.5V
01R8 = 1.8V
02R5 = 2.5V
03R3 = 3.3V

Screening level
(Please refer to device data sheet)
EM = Engineering model
(for evaluation purposes)
No Suffix = Flight model

Output
S = Single

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