



Space Qualified Power Conversion Products

Fully qualified and available on DLA SMDs, our space DC-DC converters and EMI filters are tested, proven and ready for the rigors of your LEO, MEO, GEO or deep space mission.

Features:

- Qualified to MIL-PRF-38534 Class H and Class K
- Compliant to MIL-HDBK-1547/Aerospace TOR component level screening
- Isolated DC-DC converters, non-isolated point of load converters and EMI filters
- Continuous operation over full military temperature range of -55 °C to +125 °C
- Hybrid hermetic technology
- Fault-tolerant magnetic feedback circuits – no optoisolators
- Extreme reliability, high efficiency
- Worst case analysis, stress, radiation and reliability reports available
- Manufactured in a MIL-PRF-38534 Class H and Class K certified facility

SVR Series (Radiation Hardened):

- Wide input voltage range: 18 to 37 V plus 50 V transient
- Available to Aerospace TOR component level element evaluation
- TID 100 krad(Si) with ELDRS
- SEE 85 MeV-cm²/mg

SV Series (Radiation Tolerant):

- Wide input voltage range: 15 to 50 V plus 80 V transient
- TID 30 krad(Si) with ELDRS
- SEE 44 MeV-cm²/mg



Power Your Critical Mission Today

www.vptpower.com

[SPACE DC-DC CONVERTERS, ISOLATED]

Radiation Hardened – SVR Series of DC-DC Converters						
Power Level [W]	Model Series	Outputs	Total Dose w/ ELDRS	Single Event Effects (SEE)	Developed for TOR Compliance	DLA SMD Family #
15	SVRHF2800S/D	Single and Dual	100 krad(Si) & ELDRS	85 MeV-cm ² /mg	Yes	5962R13231, 5962R13232
40	SVRTR2800S/D	Single and Dual	100 krad(Si) & ELDRS	85 MeV-cm ² /mg	Yes	5962R13209, 5962R13210
100	SVRFL2800S/D	Single and Dual	100 krad(Si) & ELDRS	85 MeV-cm ² /mg	Yes	5962R13233, 5962R13234
Radiation Tolerant – SV Series of DC-DC Converters						
6	SVSA2800S/D	Single and Dual	30 krad(Si) with 2x margin & ELDRS	44 MeV-cm ² /mg	N/A	5962P11219, 5962P11216
20	SVHF2800S/D	Single and Dual	30 krad(Si) with 2x margin & ELDRS	44 MeV-cm ² /mg	N/A	5962P11218, 5962P11215
40	SVTR2800S/D	Single and Dual	30 krad(Si) with 2x margin & ELDRS	44 MeV-cm ² /mg	N/A	5962P11220, 5962P11223
120	SVFL2800S/D	Single and Dual	30 krad(Si) with 2x margin & ELDRS	44 MeV-cm ² /mg	N/A	5962P11217, 5962P11214

[SPACE POINT OF LOAD DC-DC CONVERTERS, NON-ISOLATED]

Radiation Hardened – SVR and SV Series of Point of Load DC-DC Converters							
Power Level [A]	Model Series	Input DC Voltage [V]	Outputs	Total Dose w/ ELDRS	Single Event Effects (SEE)	Developed for TOR Compliance	DLA SMD Family #
8	SVRGA0508S	3.6 to 7.0	0.8 to 3.4	100 krad(Si)	85 MeV-cm ² /mg	Yes	5962R13217
10	SVGA0510S	3.5 to 7.0	0.8 to 3.4	100 krad(Si)	85 MeV-cm ² /mg	N/A	5962R12219
15	SVGA0515S	3.5 to 7.0	0.8 to 3.4	100 krad(Si)	85 MeV-cm ² /mg	N/A	5962R12219

[EMI FILTERS FOR SPACE]

Radiation Immune – SVR Series of EMI Filters for use with SVR Series DC-DC Converters							
Max Output Current [A]	Model Series	Input DC Voltage [V]	Total Dose	Single Event Effects (SEE)	Developed for TOR Compliance	DLA SMD Family #	
2	SVRMH28	0-50V	Immune	Immune	Yes	13011	
4	SVRMC28	0-50V	Immune	Immune	Yes	13010	
10	SVRME28	0-50V	Immune	Immune	Yes	13009	
Radiation Immune – DV Series of EMI Filters for use with SV Series DC-DC Converters							
1	DVMA28	0-50V	Immune	Immune	N/A	06004	
2	DVMH28	0-50V	Immune	Immune	N/A	06005	
4	DVMC28	0-50V	Immune	Immune	N/A	06023	
15	DVME28	0-50V	Immune	Immune	N/A	07004	

For complete data, see datasheets at www.vptpower.com

Decades of proven space heritage, including:

- GPS III
- International Space Station
- Atlas V
- Cygnus Spacecraft
- Venus Express
- Pluto New Horizons
- Mercury Messenger
- India Mars Orbiter Mission
- Orion Spacecraft
- ExoMars

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