



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



VPT[®]

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
- Falcon 9
- Venus Express
- Pluto New Horizons
- Mercury Messenger
- India Mars Orbiter Mission
- Orion Spacecraft
- New Shepard

VPT, Inc. Sales and Support Headquarters

19909 120th Avenue NE
Suite 102
Bothell, WA 98011

Telephone: (425) 353-3010
Fax: (425) 353-4030
Email: vp.sales@vptpower.com

VPT, Inc. Headquarters

1971 Kraft Drive
Blacksburg, VA 24060

Telephone: (540) 552-5000
Fax: (540) 552-5003
Email: vp.sales@vptpower.com

Products described in this communication are subject to all export license restrictions and regulations which may include but are not limited to ITAR (International Traffic in Arms Regulations) and the Export Administration and Foreign Assets Control Regulations. Further restrictions may apply. Contact VPT sales for details.

2015 VPT, Inc. All rights reserved. The information provided is considered accurate at time of publication, errors or omissions excepted. VPT, Inc. reserves the right to make changes to products or services without prior notification and advises customers to obtain the latest version of all relevant technical information from VPT to verify data prior to placing orders. All names, product names and tradenames may be trademarks or registered trademarks of their respective holder. VPT, its logo and tagline are registered trademarks in the U.S. Patent and Trademark Office.