

HIGH RELIABILITY HYBRID DC-DC CONVERTERS

DESCRIPTION

The DVHV series of high reliability DC-DC converters is operable over the full military (-55 °C to +125 °C) temperature range with no power derating. Unique to the DVHV series is a magnetic feedback circuit that is radiation immune. Operating at a nominal fixed frequency of 475 kHz, these regulated, isolated units utilize well controlled undervoltage lockout circuitry to eliminate slow start-up problems. The output voltage is trimmable up to +10% or down -20%.

These converters are designed and manufactured in a facility qualified to ISO9001 and certified to MIL-PRF-38534 and MIL-STD-883.

This product may incorporate one or more of the following U.S. patents:

5,784,266
5,790,389
5,963,438
5,999,433
6,005,780
6,084,792
6,118,673

FEATURES

- High Reliability
- Very Low Output Noise
- Output Voltage Trim Up +10% or Down -20%
- Wide Input Voltage Range: 15 to 50 Volts per MIL-STD-704
- Up to 15 Watts Output Power
- Radiation Immune Magnetic Feedback Circuit
- NO Use of Optoisolators
- Undervoltage Lockout
- Indefinite Short Circuit Protection
- Current Limit Protection
- Industry Standard Pinout
- High Input Transient Voltage: 80 Volts for 1 sec per MIL-STD-704A
- Radiation Hardened Version Available
- Precision Seam Seal or Solder Seal Hermetic Package
- Custom Versions Available
- Additional Environmental Screening Available
- Meets MIL-STD-461C and MIL-STD-461D EMC Requirements When Used With a DVMC28 EMI Filter
- Flanged and Non-flanged Versions Available.
- MIL-PRF-38534 Element Evaluated Components

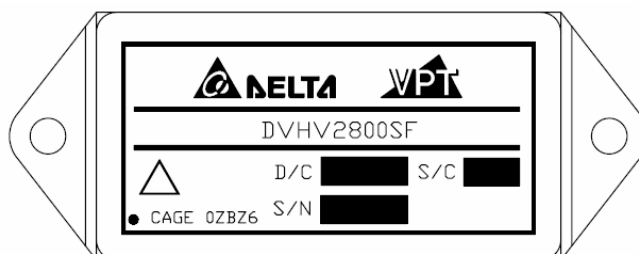


Figure 1 – DVHV2800S / DVHV2800SF DC-DC Converter
(Not To Scale)

SPECIFICATIONS ($T_{CASE} = -55^{\circ}\text{C}$ to $+125^{\circ}\text{C}$, $V_{IN} = +28\text{V} \pm 5\%$, Full Load, Unless Otherwise Specified)

ABSOLUTE MAXIMUM RATINGS

Input Voltage (Continuous)	50 V_{DC}	Junction Temperature Rise to Case	+15°C
Input Voltage (Transient, 1 second)	80 Volts	Storage Temperature	-65°C to +150°C
Output Power ¹	15 Watts	Lead Solder Temperature (10 seconds)	270°C
Power Dissipation (Full Load, $T_{CASE} = +125^{\circ}\text{C}$)	11 Watts	Weight (Maximum) (Un-Flanged / Flanged)	(49 / 52) Grams

Parameter		Conditions	DVHV283R3S			DVHV2805S			Units
			Min	Typ	Max	Min	Typ	Max	
STATIC									
INPUT Voltage ⁴		Continuous	15	28	50	15	28	50	V
		Transient, 1 sec	-	-	80	-	-	80	V
Current		Inhibited	-	-	6	-	-	6	mA
		No Load	-	-	90	-	-	90	mA
Ripple Current		Full Load, 20Hz to 10MHz	-	-	50	-	-	50	mA _{p-p}
Inhibit Pin Input ⁴			0	-	1.5	0	-	1.5	V
Inhibit Pin Open Circuit Voltage ⁴			9.0	11.0	13.0	9.0	11.0	13.0	V
UVLO Turn On			12.0	-	14.8	12.0	-	14.8	V
UVLO Turn Off ⁴			11.0	-	14.5	11.0	-	14.5	V
OUTPUT Voltage	V _{OUT}	T _{CASE} = 25°C	3.26	3.30	3.34	4.95	5.00	5.05	V
	V _{OUT}	T _{CASE} = -55°C to +125°C	3.25	3.30	3.35	4.925	5.00	5.075	V
Power ³			0	-	10	0	-	15	W
Current ³	V _{OUT}		0	-	3.03	0	-	3.0	A
Ripple Voltage	V _{OUT}	Full Load, 20Hz to 10MHz	-	-	30	-	-	30	mV _{p-p}
Line Regulation	V _{OUT}	V _{IN} = 15V to 50V	-	-	20	-	-	20	mV
Load Regulation	V _{OUT}	No Load to Full Load	-	-	50	-	-	50	mV
EFFICIENCY			68	-	-	73	-	-	%
LOAD FAULT POWER DISSIPATION		Overload ⁴	-	-	11	-	-	11	W
		Short Circuit	-	-	11	-	-	11	W
CAPACITIVE LOAD ⁴			-	-	1000	-	-	1000	μF
SWITCHING FREQUENCY			400	475	550	400	475	550	kHz
SYNC FREQUENCY RANGE		V _H – V _L = 5V Duty Cycle = 20% - 80%	500	-	600	500	-	600	kHz
ISOLATION		500 V _{DC}	100	-	-	100	-	-	MΩ
MTBF (MIL-HDBK-217F)		AIF @ T _C = 55°C	-	413	-	-	413	-	kHrs
DYNAMIC									
Load Step Output Transient	V _{OUT}	Half Load to Full Load	-	-	200	-	-	300	mV _{PK}
Load Step Recovery ²			-	-	550	-	-	500	μSec
Line Step Output Transient ⁴	V _{OUT}	V _{IN} = 16V to 40V	-	300	600	-	300	600	mV _{PK}
Line Step Recovery ^{2, 4}			-	300	500	-	300	500	μSec
Turn On Delay	V _{OUT}	V _{IN} = 0V to 28V	-	-	20	-	-	20	mSec
Turn On Overshoot			-	-	15	-	-	25	mV _{PK}

Notes: 1. Dependant on output voltage. 2. Time for output voltage to settle within 1% of its nominal value.
3. Derate linearly to 0 at 135°C. 4. Verified by qualification testing.

SPECIFICATIONS ($T_{CASE} = -55^{\circ}\text{C}$ to $+125^{\circ}\text{C}$, $V_{IN} = +28\text{V} \pm 5\%$, Full Load, Unless Otherwise Specified)

ABSOLUTE MAXIMUM RATINGS

Input Voltage (Continuous)	50 V_{DC}	Junction Temperature Rise to Case	+15°C
Input Voltage (Transient, 1 second)	80 Volts	Storage Temperature	-65°C to +150°C
Output Power ¹	15 Watts	Lead Solder Temperature (10 seconds)	270°C
Power Dissipation (Full Load, $T_{CASE} = +125^{\circ}\text{C}$)	11 Watts	Weight (Maximum) (Un-Flanged / Flanged)	(49 / 52) Grams

Parameter		Conditions	DVHV2812S			DVHV2815S			Units
			Min	Typ	Max	Min	Typ	Max	
STATIC									
INPUT Voltage ⁴		Continuous	15	28	50	15	28	50	V
		Transient, 1 sec	-	-	80	-	-	80	V
Current		Inhibited	-	-	6	-	-	6	mA
		No Load	-	-	90	-	-	90	mA
Ripple Current		Full Load, 20Hz to 10MHz	-	-	50	-	-	50	mA _{p-p}
Inhibit Pin Input ⁴			0	-	1.5	0	-	1.5	V
Inhibit Pin Open Circuit Voltage ⁴			9.0	11.0	13.0	9.0	11.0	13.0	V
UVLO Turn On			12.0	-	14.8	12.0	-	14.8	V
UVLO Turn Off ⁴			11.0	-	14.5	11.0	-	14.5	V
OUTPUT Voltage	V _{OUT}	T _{CASE} = 25°C	11.88	12.0	12.12	14.85	15.0	15.15	V
	V _{OUT}	T _{CASE} = -55°C to +125°C	11.82	12.0	12.18	14.775	15.0	15.225	V
Power ³			0	-	15	0	-	15	W
Current ³	V _{OUT}		0	-	1.25	0	-	1.0	A
Ripple Voltage		Full Load, 20Hz to 10MHz	-	-	40	-	-	40	mV _{p-p}
Line Regulation		V _{IN} = 15V to 50V	-	-	20	-	-	20	mV
Load Regulation		No Load to Full Load	-	-	50	-	-	50	mV
EFFICIENCY			77	-	-	77	-	-	%
LOAD FAULT POWER DISSIPATION		Overload ⁴	-	-	11	-	-	11	W
		Short Circuit	-	-	11	-	-	11	W
CAPACITIVE LOAD ⁴			-	-	500	-	-	500	μF
SWITCHING FREQUENCY			400	475	550	400	475	550	kHz
SYNC FREQUENCY RANGE		V _H – V _L = 5V Duty Cycle = 20% - 80%	500	-	600	500	-	600	KHz
ISOLATION		500 V _{DC}	100	-	-	100	-	-	MΩ
MTBF (MIL-HDBK-217F)		AIF @ T _C = 55°C	-	413	-	-	413	-	kHrs
DYNAMIC									
Load Step Output Transient	V _{OUT}	Half Load to Full Load	-	-	300	-	-	350	mV _{PK}
Load Step Recovery ²			-	-	550	-	-	450	μSec
Line Step Output Transient ⁴	V _{OUT}	V _{IN} = 16V to 40V	-	500	900	-	500	900	mV _{PK}
Line Step Recovery ^{2, 4}			-	300	500	-	300	500	μSec
Turn On Delay	V _{OUT}	V _{IN} = 0V to 28V	-	-	20	-	-	20	mSec
Turn On Overshoot			-	-	50	-	-	50	mV _{PK}

Notes: 1. Dependant on output voltage. 2. Time for output voltage to settle within 1% of its nominal value.
3. Derate linearly to 0 at 135°C. 4. Verified by qualification testing.

SPECIFICATIONS ($T_{CASE} = -55^{\circ}\text{C}$ to $+125^{\circ}\text{C}$, $V_{IN} = +28\text{V} \pm 5\%$, Full Load, Unless Otherwise Specified)

ABSOLUTE MAXIMUM RATINGS

Input Voltage (Continuous)	50 V_{DC}	Junction Temperature Rise to Case	$+15^{\circ}\text{C}$
Input Voltage (Transient, 1 second)	80 Volts	Storage Temperature	-65°C to $+150^{\circ}\text{C}$
Output Power ¹	15 Watts	Lead Solder Temperature (10 seconds)	270°C
Power Dissipation (Full Load, $T_{CASE} = +125^{\circ}\text{C}$)	11 Watts	Weight (Maximum) (Un-Flanged / Flanged)	(49 / 52) Grams

Parameter		Conditions	DVHV285R2S			Units
			Min	Typ	Max	
STATIC						
INPUT Voltage ⁴		Continuous	15	28	50	V
		Transient, 1 sec	-	-	80	V
Current		Inhibited	-	-	6	mA
		No Load	-	-	90	mA
Ripple Current		Full Load, 20Hz to 10MHz	-	-	50	mA _{p-p}
Inhibit Pin Input ⁴			0	-	1.5	V
Inhibit Pin Open Circuit Voltage ⁴			9.0	11.0	13.0	V
UVLO Turn On			12.0	-	14.8	V
UVLO Turn Off ⁴			11.0	-	14.5	V
OUTPUT Voltage	V _{OUT}	T _{CASE} = 25°C	5.148	5.20	5.252	V
	V _{OUT}	T _{CASE} = -55°C to +125°C	5.122	5.20	5.278	V
Power ³			0	-	15	W
Current ³	V _{OUT}		0	-	3.0	A
Ripple Voltage	V _{OUT}	Full Load, 20Hz to 10MHz	-	-	30	mV _{p-p}
Line Regulation	V _{OUT}	V _{IN} = 15V to 50V	-	-	20	mV
Load Regulation	V _{OUT}	No Load to Full Load	-	-	50	mV
EFFICIENCY			73	-	-	%
LOAD FAULT POWER DISSIPATION		Overload ⁴	-	-	11	W
		Short Circuit	-	-	11	W
CAPACITIVE LOAD ⁴			-	-	1000	μF
SWITCHING FREQUENCY			400	475	550	kHz
SYNC FREQUENCY RANGE		V _H – V _L = 5V Duty Cycle = 20% - 80%	500	-	600	kHz
ISOLATION		500 V _{DC}	100	-	-	MΩ
MTBF (MIL-HDBK-217F)		AIF @ T _C = 55°C	-	413	-	kHrs
DYNAMIC						
Load Step Output Transient	V _{OUT}	Half Load to Full Load	-	-	300	mV _{PK}
Load Step Recovery ²			-	-	500	μSec
Line Step Output Transient ⁴	V _{OUT}	V _{IN} = 16V to 40V	-	300	600	mV _{PK}
Line Step Recovery ^{2, 4}			-	300	500	μSec
Turn On Delay	V _{OUT}	V _{IN} = 0V to 28V	-	-	20	mSec
Turn On Overshoot			-	-	25	mV _{PK}

Notes: 1. Dependant on output voltage. 2. Time for output voltage to settle within 1% of its nominal value.
3. Derate linearly to 0 at 135°C . 4. Verified by qualification testing.

BLOCK DIAGRAM

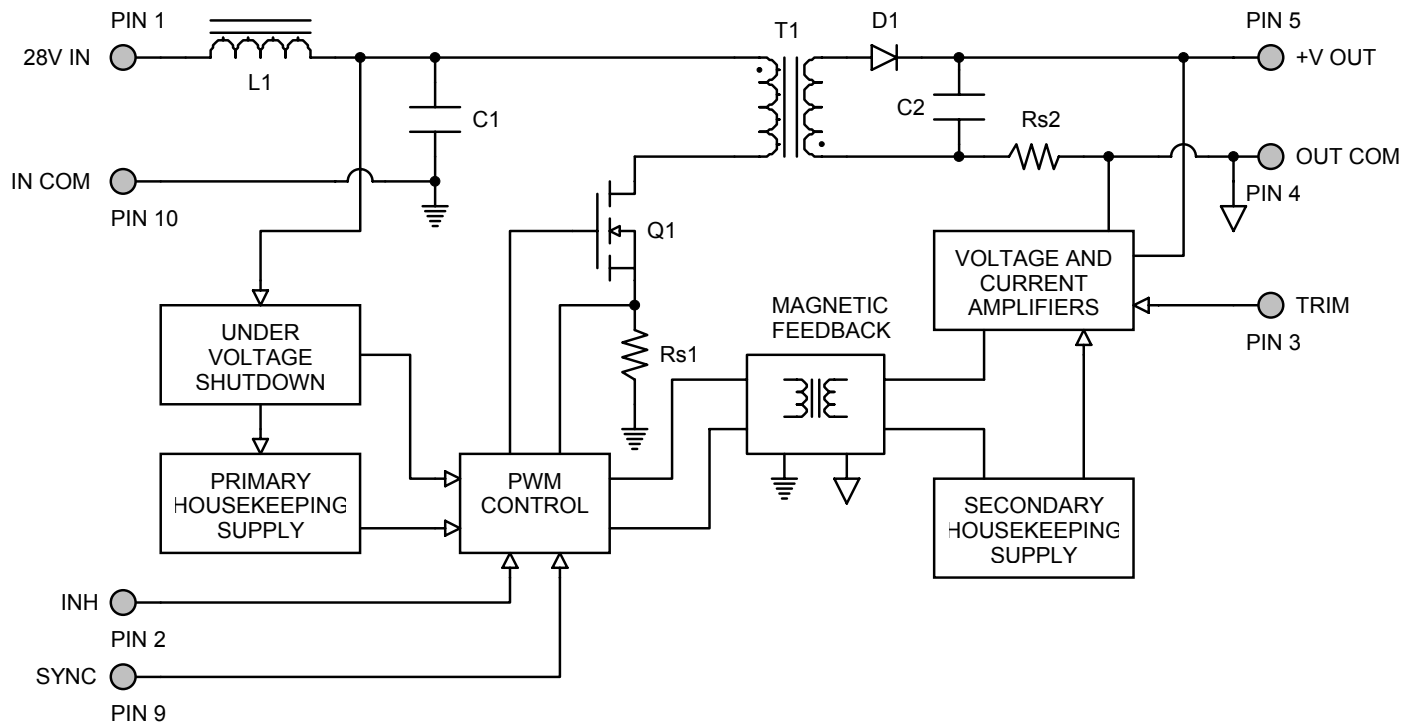


Figure 2

CONNECTION DIAGRAM

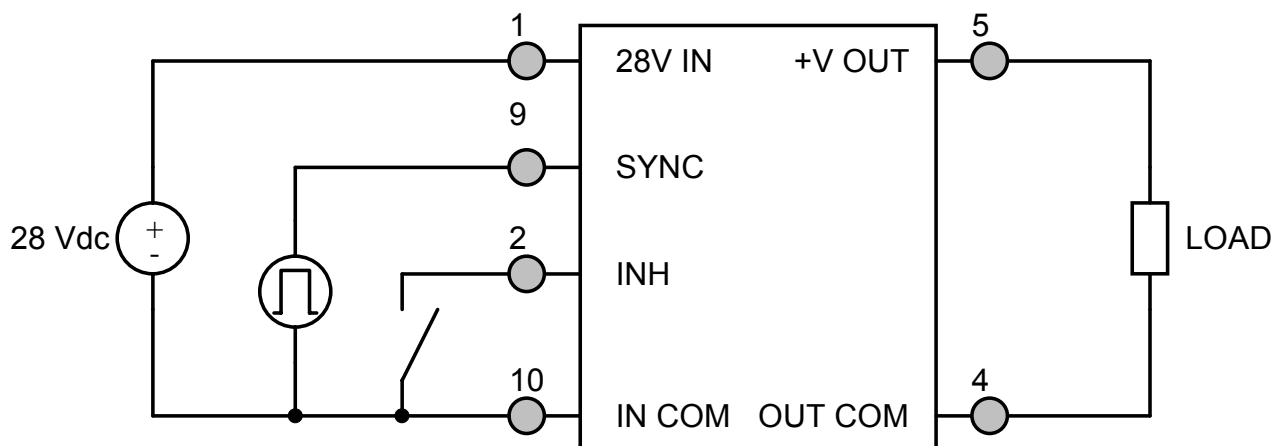


Figure 3

28V IN 1

10K

INH 2

BIAS

OPTIONAL CAPACITOR

IN COM 10

12V

28V IN 1

10K

INH 2

BIAS

OPTIONAL CAPACITOR

12V

IN COM 10

OPTOISOLATOR

The schematic diagram illustrates the DVHV2800S DC-DC converter system. It consists of two main components: the DVMC28 EMI FILTER and the DVHV2800S DC-DC CONVERTER.

DVMC28 EMI FILTER: This component has four pins. Pin 1 is labeled "28V IN" and is connected to a 28 Vdc source. Pin 2 is labeled "28V OUT" and is connected to the input of the DVHV2800S DC-DC CONVERTER. Pin 3 is labeled "IN COM" and is connected to the common ground (CASE). Pin 4 is labeled "OUT COM" and is connected to the common ground (CASE).

DVHV2800S DC-DC CONVERTER: This component has ten pins. Pin 1 is labeled "28V IN" and is connected to the output of the DVMC28 EMI FILTER. Pin 2 is labeled "INH" and is connected to the output of the DVMC28 EMI FILTER. Pin 3 is labeled "SYNC" and is connected to the output of the DVMC28 EMI FILTER. Pin 4 is labeled "IN COM" and is connected to the common ground (CASE). Pin 5 is labeled "+V OUT" and is connected to the output of the converter. Pin 6 is labeled "OUT COM" and is connected to the common ground (CASE). Pin 7 is labeled "CASE" and is connected to the common ground (CASE). Pin 8 is labeled "CASE" and is connected to the common ground (CASE). Pin 9 is labeled "CASE" and is connected to the common ground (CASE). Pin 10 is labeled "CASE" and is connected to the common ground (CASE).

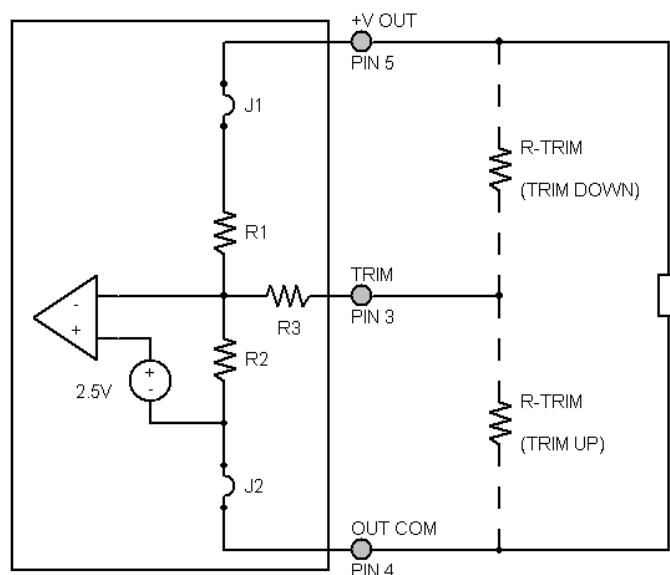
The output of the DVHV2800S DC-DC CONVERTER (+V OUT) is connected to a LOAD.

6

The diagram illustrates a power supply system with three DC-DC converters. A 28 Vdc source is connected to the first converter, the DVMC28 EMI FILTER. This converter's output is connected to the input of the second DVHV2800S DC-DC CONVERTER. The second converter's output is connected to the input of the third DVHV2800S DC-DC CONVERTER. The output of the third converter is connected to a load. The system is powered by a 28 Vdc source. The first converter (DVMC28) has pins 1, 2, 3, 4, 5, and 10. The second converter (DVHV2800S) has pins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, and 11. The third converter (DVHV2800S) has pins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, and 11. The output of the first converter is connected to the input of the second converter. The output of the second converter is connected to the input of the third converter. The output of the third converter is connected to a load.

1X020DSF

OUTPUT VOLTAGE TRIM



The output voltage can be trimmed down by connecting a resistor between the TRIM pin (PIN 3) and the +V OUT pin (PIN 5), or can be trimmed up by connecting a resistor between the TRIM pin (PIN 3) and the OUT COM pin (PIN 4). The maximum trim range is +10% up and -20% down. The appropriate resistor values versus the output voltage are given in the trim table below.

Figure 8 – Output Voltage Trim

DVHV283R3S		DVHV2805S		DVHV285R2S		DVHV2812S		DVHV2815S	
+V _{OUT} (V)	R _{TRIM} (Ω)	+V _{OUT} (V)	R _{TRIM} (Ω)	+V _{OUT} (V)	R _{TRIM} (Ω)	+V _{OUT} (V)	R _{TRIM} (Ω)	+V _{OUT} (V)	R _{TRIM} (Ω)
3.75	25.4k	5.5	19k	5.7	23k	13.2	5.93k	16.75	0
3.70	32.5k	5.4	31.5k	5.6	36.5k	13.0	10.1k	16.50	1.67k
3.65	41.8k	5.3	52.3k	5.5	59k	12.8	16.5k	16.25	5k
3.60	54.2k	5.2	94k	5.4	104k	12.6	27.1k	16.00	10k
3.55	71.6k	5.1	219k	5.3	239k	12.4	48.4k	15.75	18.3k
3.50	98.2k	5.0	-	5.2	-	12.2	113.7k	15.50	35k
3.45	143.2k	4.9	209k	5.1	249.8k	12.0	-	15.25	85k
3.40	236k	4.8	84k	5.0	104k	11.8	437k	15.00	-
3.35	543k	4.7	42.3k	4.9	55.4k	11.6	209k	14.75	475k
3.30	-	4.6	21.5k	4.8	31.1k	11.4	132k	14.50	225k
3.25	102k	4.5	9k	4.7	16.5k	11.2	93k	14.25	142k
3.20	34.8k	4.4	0	4.6	6.8k	11.0	69.5k	14.00	100k
3.15	10.5k					10.8	53.8k	13.75	75k
3.10	0					10.6	42.6k	13.50	58.3k
						10.4	34.2k	13.25	46.4k
						10.2	27.6k	13.00	37.5k
						10.0	22.4k	12.75	30.6k
						9.8	18.1k	12.50	25k
						9.6	14.5k	12.25	20.5k
						9.4	11.5k	12.00	16.7k
						9.2	8.88k		
						9.0	6.63k		

EFFICIENCY PERFORMANCE CURVES ($T_{CASE} = 25^{\circ}C$, Full Load, Unless Otherwise Specified)

----- $V_{IN} = 16V$
————— $V_{IN} = 28V$
- - - - - $V_{IN} = 40V$

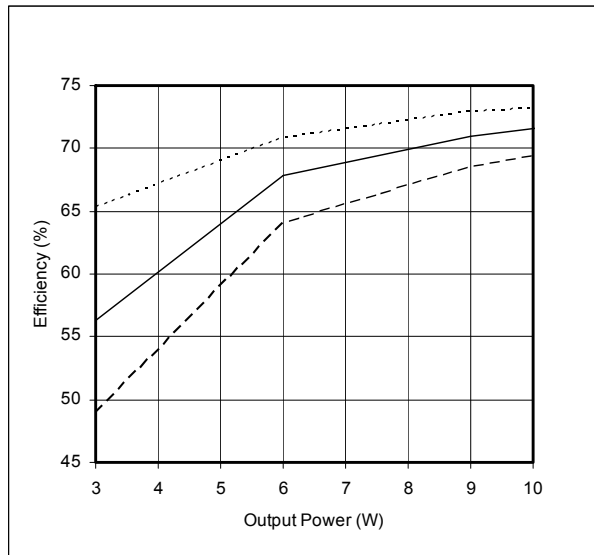


Figure 9 – DVHV283R3S
Efficiency (%) vs. Output Power (W)

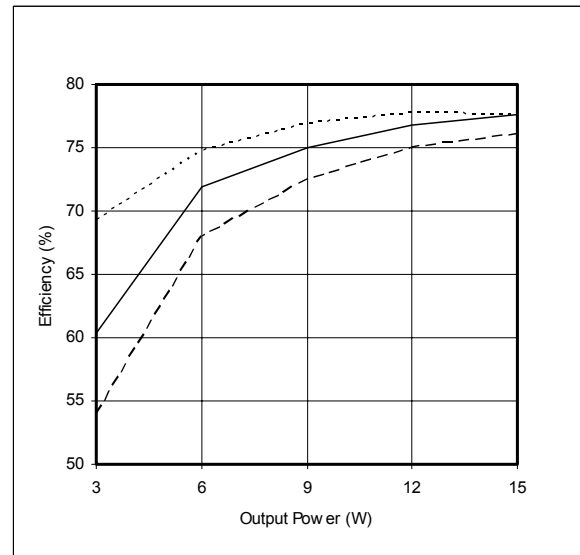


Figure 10 – DVHV2805S / DVHV285R2S
Efficiency (%) vs. Output Power (W)

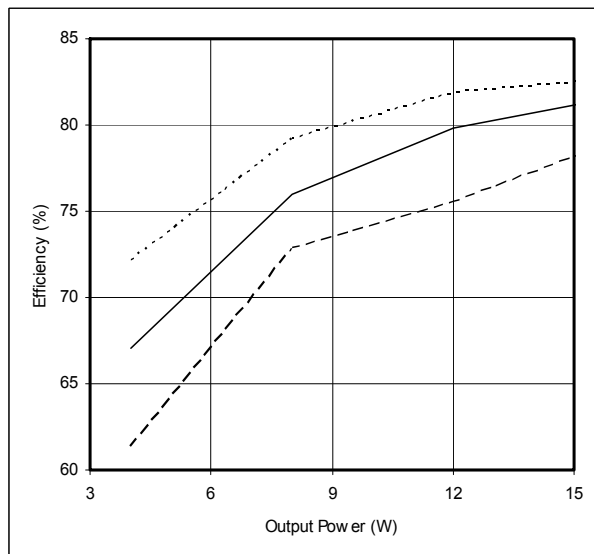


Figure 11 – DVHV2812S
Efficiency (%) vs. Output Power (W)

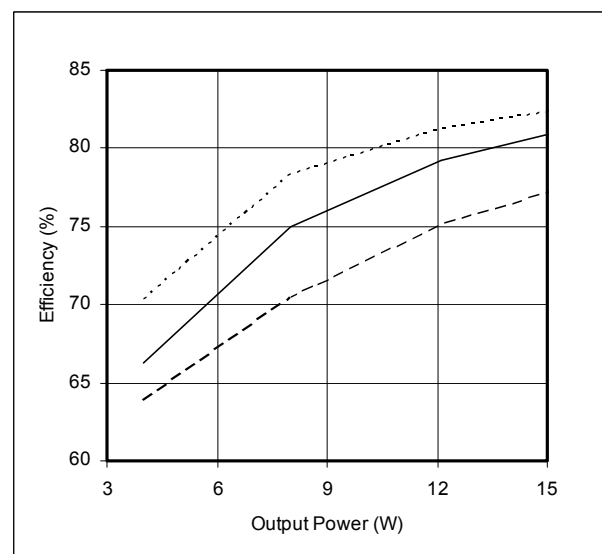


Figure 12 – DVHV2815S
Efficiency (%) vs. Output Power (W)

EMI PERFORMANCE CURVES

($T_{CASE} = 25^{\circ}\text{C}$, $V_{IN} = +28\text{V} \pm 5\%$, Full Load, Unless Otherwise Specified)

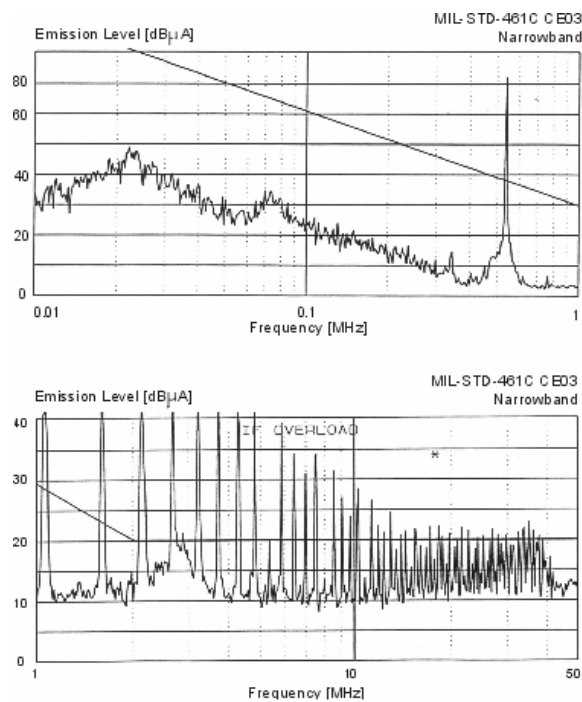


Figure 13 – DVHV2800S without EMI Filter

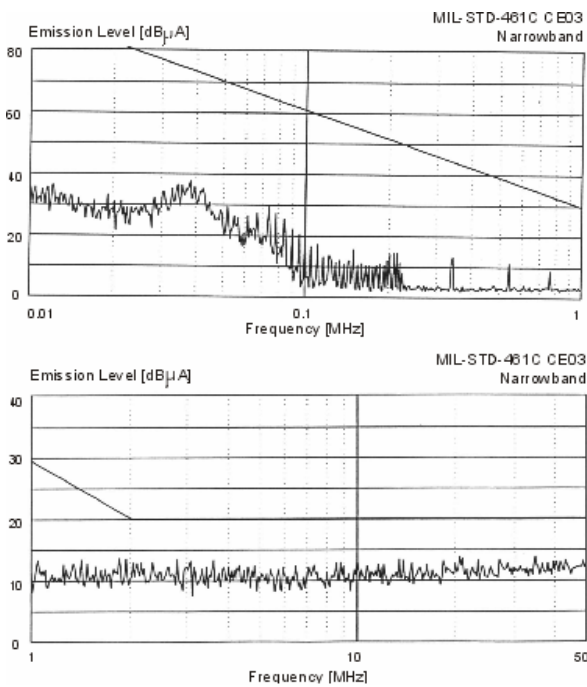


Figure 14 – DVHV2800S with EMI Filter

PACKAGE SPECIFICATIONS (NON-FLANGED, SOLDER SEAL)

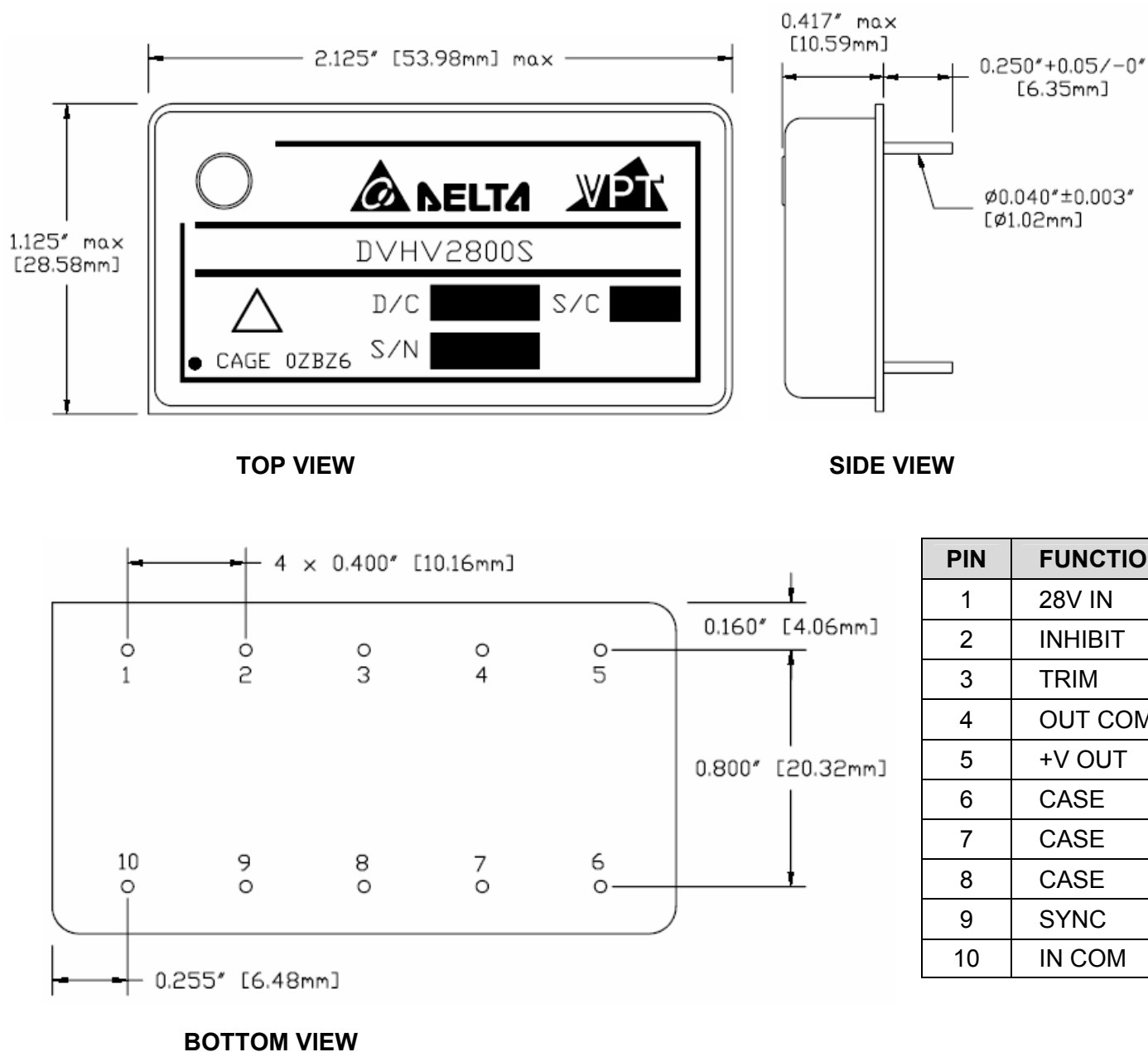
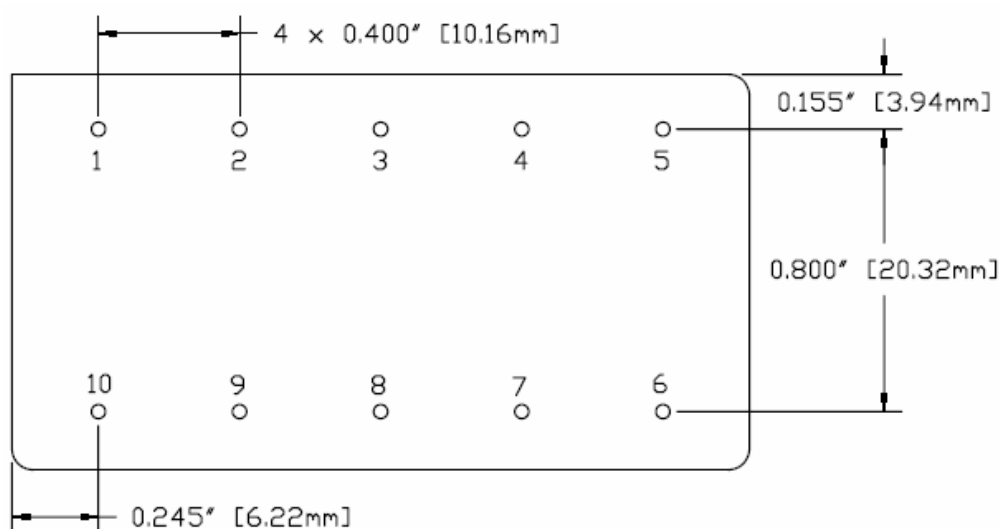
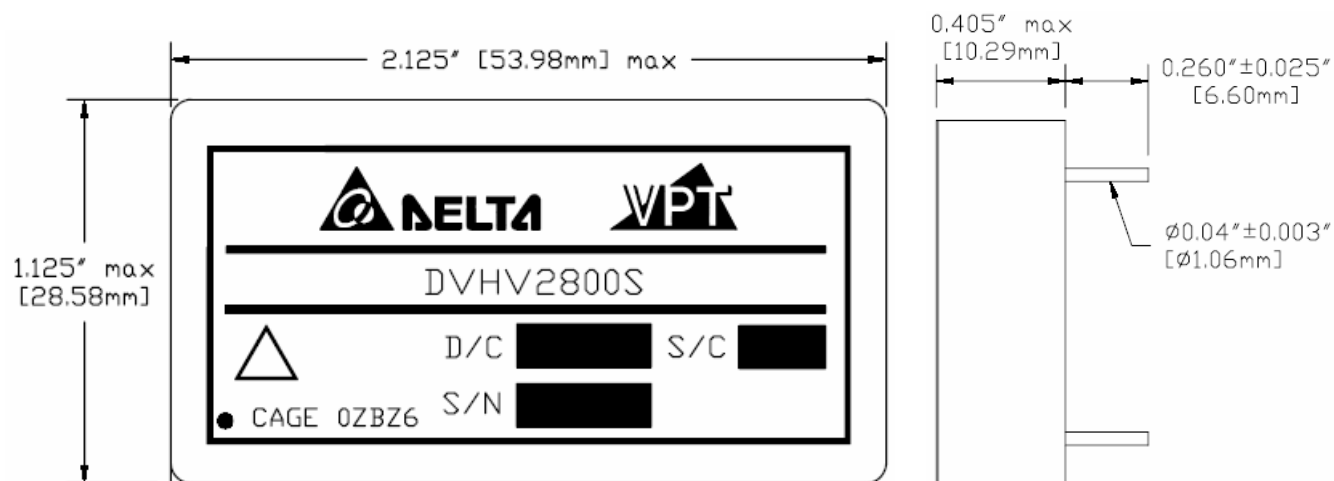


Figure 15 – Non-Flanged, Solder Seal Tin Plated Package and Pinout (Not Used for /HB or Higher Screened Products)
(Dimensional Limits are $\pm 0.005"$ Unless Otherwise Stated)

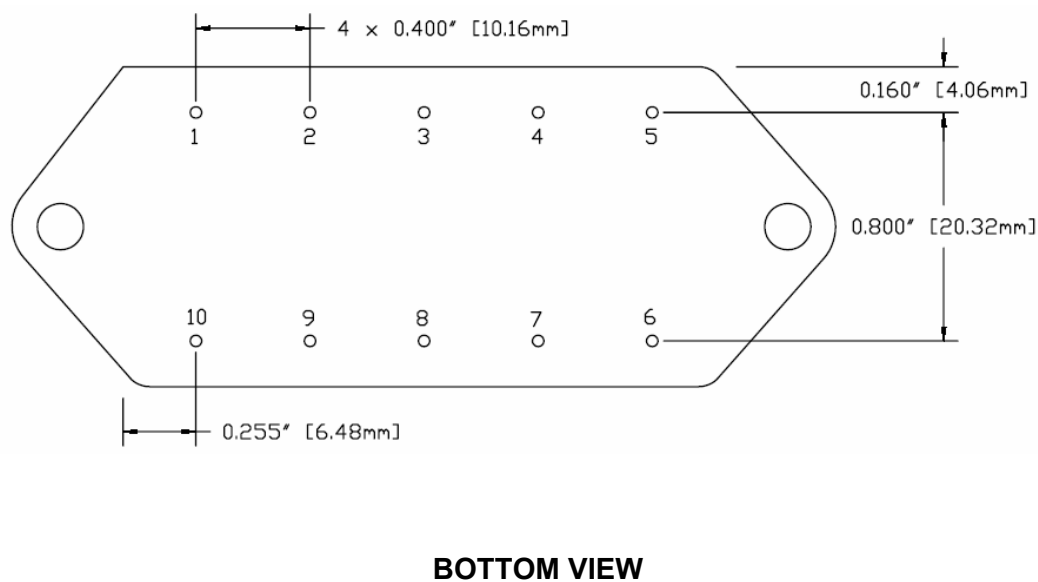
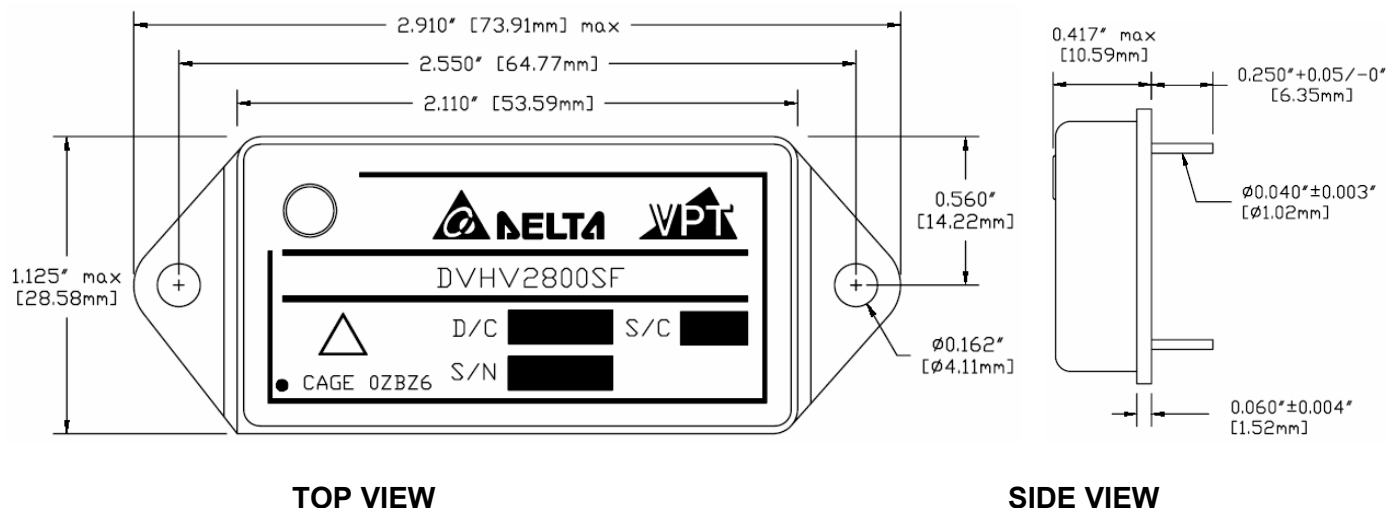
PACKAGE SPECIFICATIONS (NON-FLANGED, SEAM SEAL)



PIN	FUNCTION
1	28V IN
2	INHIBIT
3	TRIM
4	OUT COM
5	+V OUT
6	CASE
7	CASE
8	CASE
9	SYNC
10	IN COM

Figure 16 – Non-Flanged, Seam Seal Package and Pinout
(Dimensional Limits are ± 0.005 " Unless Otherwise Stated)

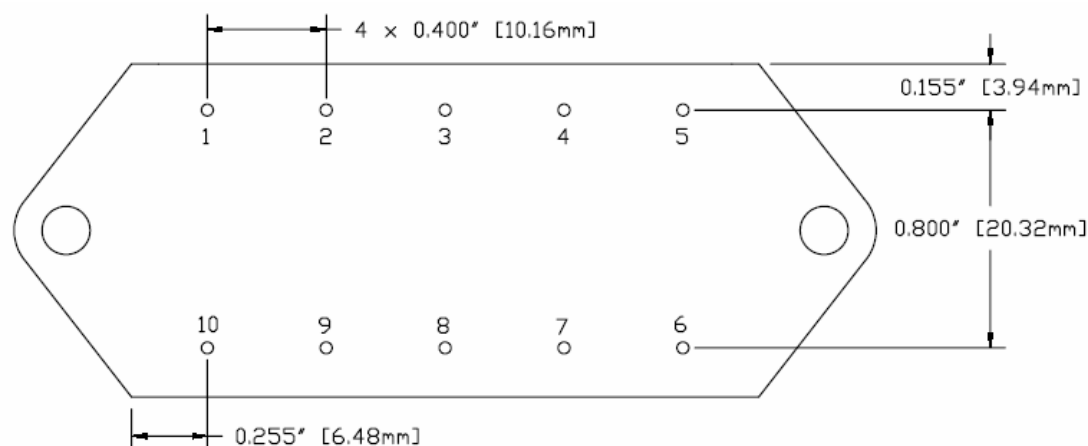
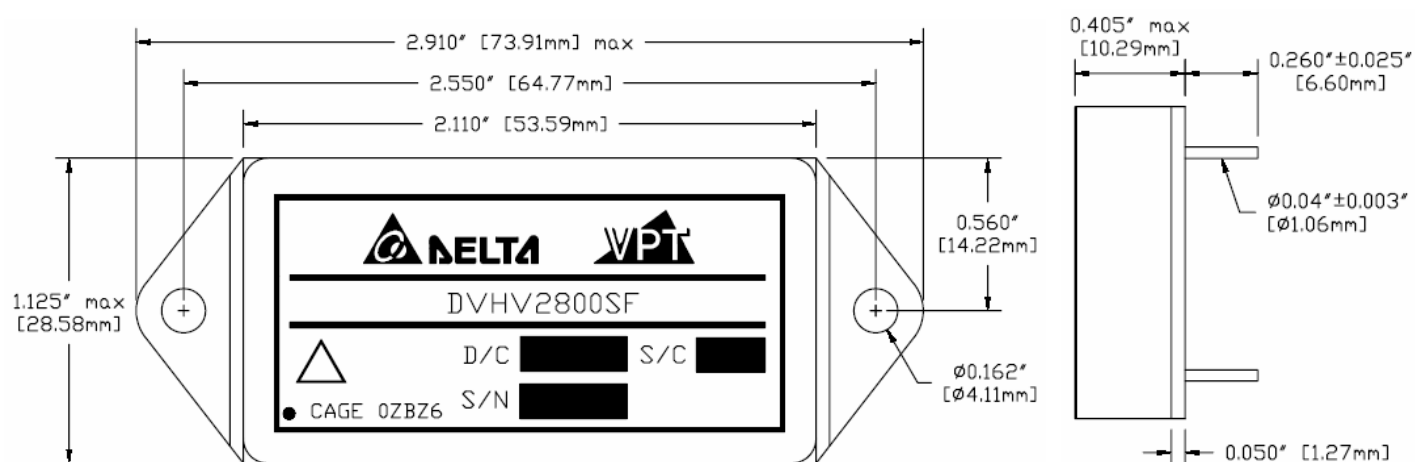
PACKAGE SPECIFICATIONS (FLANGED, SOLDER SEAL)



PIN	FUNCTION
1	28V IN
2	INHIBIT
3	TRIM
4	OUT COM
5	+V OUT
6	CASE
7	CASE
8	CASE
9	SYNC
10	IN COM

Figure 17 – Flanged, Solder Seal Tin Plated Package and Pinout (Not Used for /HB or Higher Screened Products)
(Dimensional Limits are $\pm 0.005"$ Unless Otherwise Stated)

PACKAGE SPECIFICATIONS (FLANGED, SEAM SEAL)



PIN	FUNCTION
1	28V IN
2	INHIBIT
3	TRIM
4	OUT COM
5	+V OUT
6	CASE
7	CASE
8	CASE
9	SYNC
10	IN COM

Figure 18 – Flanged, Seam Seal Package and Pinout
(Dimensional Limits are $\pm 0.005"$ Unless Otherwise Stated)

PACKAGE PIN DESCRIPTION

Pin	Function	Description
1	28V IN	Positive Input Voltage Connection
2	INHIBIT	Logic Low = Disabled Output. Connecting the inhibit pin to input common causes converter shutdown. Logic High = Enabled Output. Unconnected or open collector TTL.
3	TRIM	Trim Output Voltage to +10%, -20% of Nominal Value
4	OUT COM	Output Common Connection
5	+V OUT	Positive Output Voltage Connection
6	CASE	Case Connection
7	CASE	Case Connection
8	CASE	Case Connection
9	SYNC	Synchronization Signal
10	IN COM	Input Common Connection

ENVIRONMENTAL SCREENING (Per MIL-STD-883 as referenced to MIL-PRF-38534, Class H)

Screening	MIL-STD-883	Standard (No Suffix)	Extended /ES	HB /HB	Class H /H	Class K /K
Non-Destructive Bond Pull	Method 2023	•	•	•	•	•
Internal Visual	Method 2017, 2032 Internal Procedure	•	•	•	•	•
Temperature Cycling	Method 1010, Condition C Method 1010, -55°C to 125°C		•	•	•	•
Constant Acceleration	Method 2001, 3000g, Y1 Direction Method 2001, 500g, Y1 Direction		•	•	•	•
PIND	Method 2020, Condition A ²					•
Pre Burn-In Electrical	100% at 25°C					•
Burn-In	Method 1015, 320 hours at +125°C Method 1015, 160 hours at +125°C 96 hours at +125°C 24 hours at +125°C	•	•	•	•	•
Final Electrical	MIL-PRF-38534, Group A ¹ 100% at 25°C	•	•	•	•	•
Hermeticity	Method 1014, Fine Leak, Condition A Method 1014, Gross Leak, Condition C Dip (1 x 10 ⁻³)	•	•	•	•	•
Radiography	Method 2012 ³					•
External Visual	Method 2009	•	•	•	•	•

- Notes:
1. 100% R&R testing at -55°C, +25°C, and +125°C with all test data included in product shipment.
 2. PIND test Certificate of Compliance included in product shipment.
 3. Radiographic test Certificate of Compliance and film(s) included in product shipment.

ORDERING INFORMATION

DVHV	28	05	S	F	R	/HB	-	XXX
1	2	3	4	5	6	7		8

(1) Product Series	(2) Nominal Input Voltage		(3) Output Voltage		(4) Number of Outputs	
DVHV	28	28 Volts	3R3 05 5R2 12 15	3.3 Volts 5 Volts 5.2 Volts 12 Volts 15 Volts	S	Single

(5) Package Option		(6) Rad-Hard Option ²		(7) Screening Code ^{1,3}		(8) Additional Screening Code
None F	Non-Flanged Flanged	None R	Standard 100 kRad	None /ES /HB /H /K	Standard Extended HB Class H Class K	Contact Sales

- Notes:
1. Contact the VPT Inc. Sales Department for availability of Class H (/H) or Class K (/K) qualified products.
 2. VPT Inc. is not currently qualified to a DSCC certified radiation hardness assurance program.
 3. VPT Inc. reserves the right to ship higher screened or SMD products to meet lower screened orders at our sole discretion unless specifically forbidden by customer contract.

Please contact your sales representative or the VPT Inc. Sales Department for more information concerning additional environmental screening and testing, different input voltage, output voltage, power requirement, source inspection, and/or special element evaluation for space or other higher quality applications.

SMD (STANDARD MICROCIRCUIT DRAWING) NUMBERS

Standard Microcircuit Drawing (SMD)	DVHV2800S Series Similar Part Number
*T.B.D.	DVHV283R3S/H DVHV283R3SF/H
*T.B.D.	DVHV2805S/H DVHV2805SF/H
*T.B.D.	DVHV285R2S/H DVHV285R2SF/H
*T.B.D.	DVHV2812S/H DVHV2812SF/H
*T.B.D.	DVHV2815S/H DVHV2815SF/H

Do not use the DVHV2800S Series similar part number for SMD product acquisition. It is listed for reference only. For exact specifications for the SMD product, refer to the SMD drawing. SMD's can be downloaded from the DSCC website at <http://www.dscclia.mil/programs/smcr/>. The SMD number listed above is for MIL-PRF-38534 Class H screening, standard gold plated lead finish, and no RHA (Radiation Hardness Assurance) level. Please reference the SMD for other screening levels, lead finishes, and radiation levels.

CONTACT INFORMATION

To request a quotation or place orders please contact your sales representative or the VPT Inc. Sales Department at:

Phone: (425) 353-3010
Fax: (425) 353-4030
E-mail: vptsales@vpt-inc.com

All information contained in this datasheet is believed to be accurate, however, no responsibility is assumed for possible errors or omissions. The products or specifications contained herein are subject to change without notice.