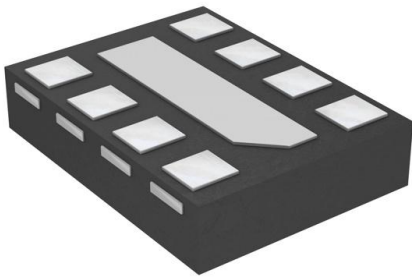


# AP7344D-2833RH4-7 Datasheet

[www.digi-electronics.com](http://www.digi-electronics.com)



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	AP7344D-2833RH4-7-DG
Manufacturer	<a href="#">Diodes Incorporated</a>
Manufacturer Product Number	AP7344D-2833RH4-7
Description	IC REG LIN 2.8V/3.3V X2DFN1612-8
Detailed Description	Linear Voltage Regulator IC Positive Fixed 2 Output 300mA, 300mA X2-DFN1612-8



Tel: +00 852-30501935

RFQ Email: [Info@DiGi-Electronics.com](mailto:Info@DiGi-Electronics.com)

DiGi is a global authorized distributor of electronic components.

## Purchase and inquiry

Manufacturer Product Number:

AP7344D-2833RH4-7

Series:

-

Output Configuration:

Positive

Number of Regulators:

2

Voltage - Output (Min/Fixed):

2.8V, 3.3V

Voltage Dropout (Max):

0.3V @ 300mA, 0.29V @ 300mA

Current - Quiescent (Iq):

140  $\mu$ A

Control Features:

Enable

Operating Temperature:

-40°C ~ 85°C

Package / Case:

8-XDFN Exposed Pad

Base Product Number:

AP7344

Manufacturer:

Diodes Incorporated

Product Status:

Last Time Buy

Output Type:

Fixed

Voltage - Input (Max):

5.25V

Voltage - Output (Max):

-

Current - Output:

300mA, 300mA

PSRR:

75dB (1kHz)

Protection Features:

Over Current

Mounting Type:

Surface Mount

Supplier Device Package:

X2-DFN1612-8

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8542.39.0001

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99



**THE AP7344 IS NOT RECOMMENDED FOR NEW DESIGNS.  
PLEASE USE THE [AP7345D](#).**



**AP7344**

## DUAL 300mA HIGH PSRR LOW-NOISE LDO WITH ENABLE

### Description

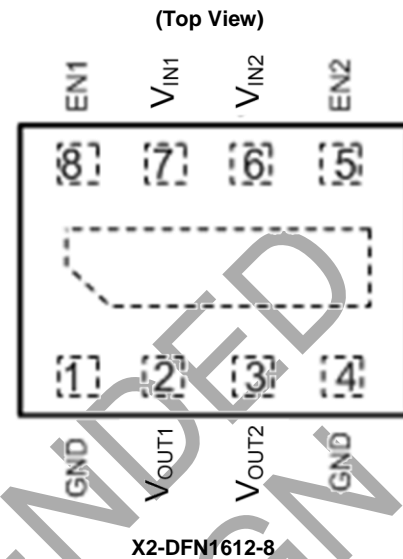
The AP7344 is a Dual low-dropout regulator with high output voltage accuracy, low  $R_{DS(on)}$ , high PSRR, low output noise and low quiescent current. This regulator is based on a CMOS process.

Each of regulators includes a voltage reference, error amplifier, current limit circuit and an enable input to turn on/ off output. With the integrated resistor network fixed output voltage versions can be delivered.

With its low power consumption and line and load transient response, the AP7344 is well suited for low power handheld communication equipment.

The AP7344 is packaged in X2-DFN1612-8 package and allows for smallest footprint and dense PCB layout.

### Pin Assignments



### Features

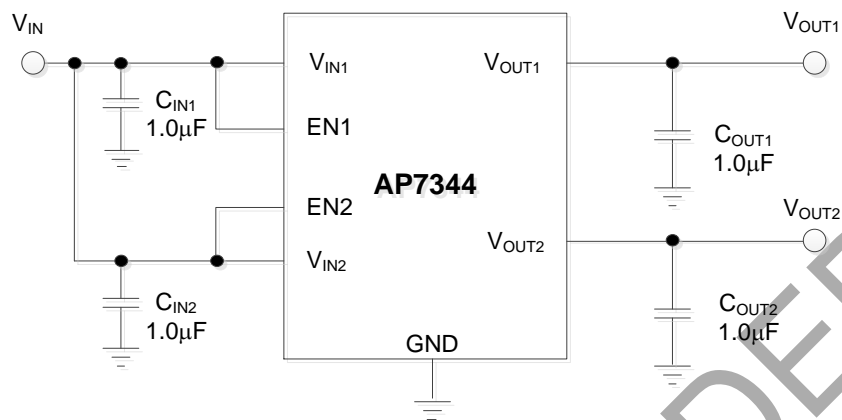
- Low  $V_{IN}$  and Wide  $V_{IN}$  Range: 1.7V to 5.25V
- Guarantee Output Current: 300mA
- $V_{OUT}$  Accuracy  $\pm 1\%$
- Ripple Rejection: 75dB at 1kHz
- Low Output Noise: 60 $\mu$ V<sub>rms</sub> from 10Hz to 100kHz
- Quiescent Current as Low as 50 $\mu$ A
- $V_{OUT}$  Fixed 1.2V to 3.6V
- **Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2)**
- **Halogen and Antimony Free, Green Device (Note 3)**
- **For automotive applications requiring specific change control (i.e. parts qualified to AEC-Q100/101/104/200, PPAP capable, and manufactured in IATF 16949 certified facilities), please [contact us](#) or your local Diodes representative. <https://www.diodes.com/quality/product-definitions/>**

### Applications

- Smart phones/Tablets
- RF supplies
- Cameras
- Portable videos
- Portable media players
- Wireless adapters
- Wireless communication

- Notes:
1. No purposely added lead. Fully EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant.
  2. See <https://www.diodes.com/quality/lead-free/> for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
  3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

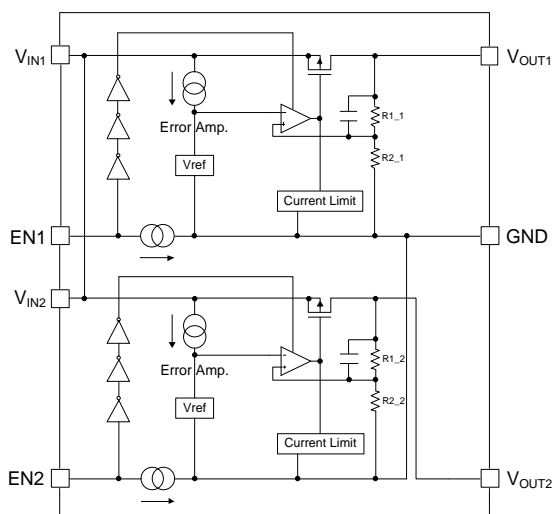
## Typical Applications Circuit



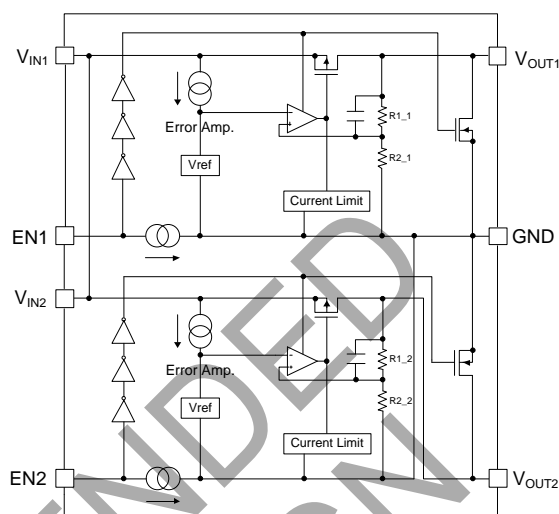
## Pin Descriptions

Pin Name	Pin Number	Function
GND	1, 4	Ground
V <sub>OUT1</sub>	2	Channel 1 Output Voltage pin
V <sub>OUT2</sub>	3	Channel 2 Output Voltage pin
EN2	5	Channel 2 Enable pin. This pin should be driven either high or low and must not be floating. Driving this pin high enables channel 2 output, while pulling it low puts Channel 2 regulator into shutdown mode.
V <sub>IN2</sub>	6	Input Voltage pin
V <sub>IN1</sub>	7	Input Voltage pin
EN1	8	Channel 1 Enable pin. This pin should be driven either high or low and must not be floating. Driving this pin high enables channel 1 output, while pulling it low puts Channel 1 regulator into shutdown mode.
—	Thermal Pad	In PCB layout, it is preferred to use large copper area to cover this pad for better thermal dissipation, then connect this area to GND or leave it open. However, do not use it as GND electrode function alone.

## Functional Block Diagram



AP7344 (No Discharge)



AP7344 (With Discharge)

## Absolute Maximum Ratings (@ $T_A = +25^\circ\text{C}$ , unless otherwise specified.) (Note 4)

Symbol	Parameter	Rating	Unit
$V_{IN}$	Input Voltage	6.0	V
$V_{EN}$	Input Voltage at EN Pins	6.0	V
$V_{OUT}$	Output Voltage	-0.3 to $V_{IN} + 0.3$	V
$I_{OUT}$	Output Current	400	mA
$P_D$	Power Dissipation	600	mW
$T_A$	Operating Ambient Temperature	-40 to +85	$^\circ\text{C}$
$T_{STG}$	Storage Temperature	-55 to +125	$^\circ\text{C}$

Note: 4. Stresses greater than those listed under *Absolute Maximum Ratings* can cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under *Recommended Operating Conditions* is not implied. Exposure to *Absolute Maximum Ratings* for extended periods can affect device reliability.

## Recommended Operating Conditions (@ $T_A = +25^\circ\text{C}$ , unless otherwise specified.)

Symbol	Parameter	Min	Max	Unit
$V_{IN}$	Input Voltage	1.7	5.25	V
$I_{OUT}$	Output Current	0	300	mA
$T_A$	Operating Ambient Temperature	-40	+85	$^\circ\text{C}$



AP7344

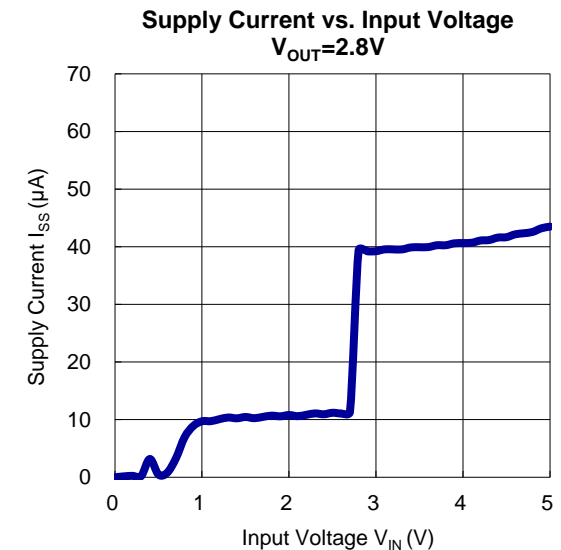
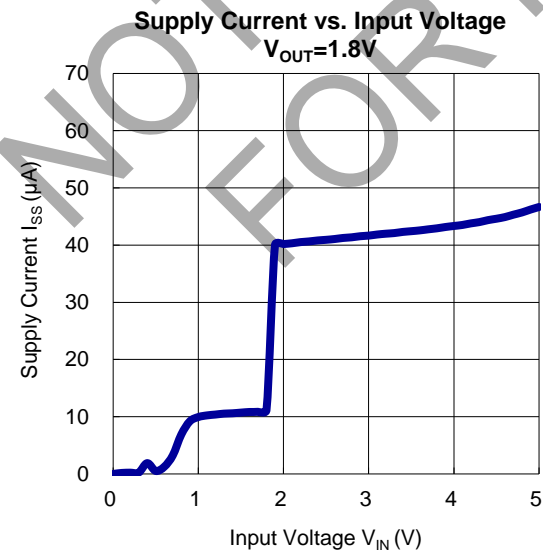
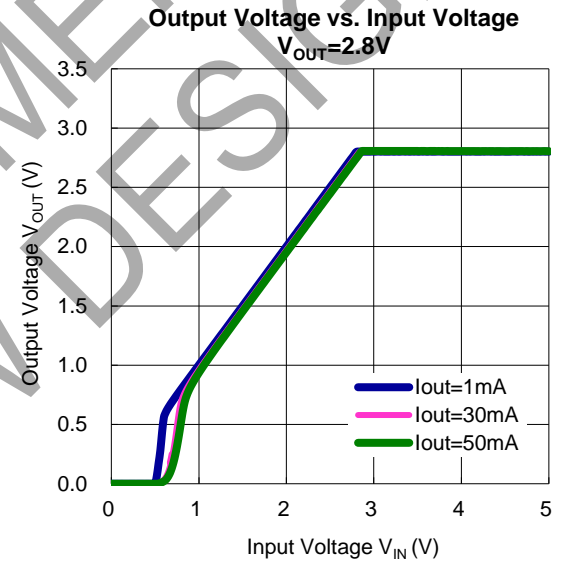
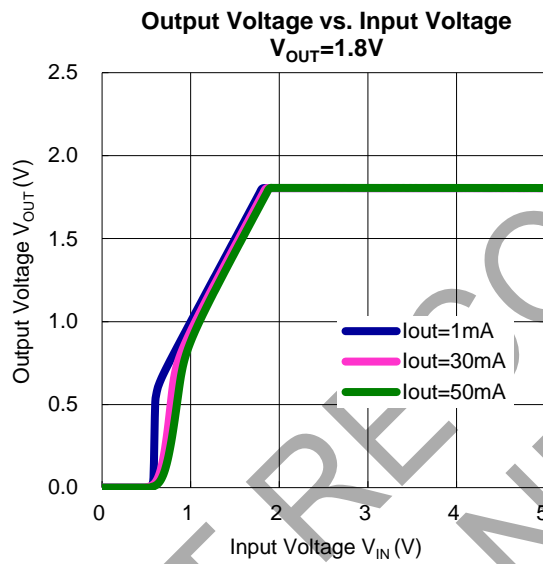
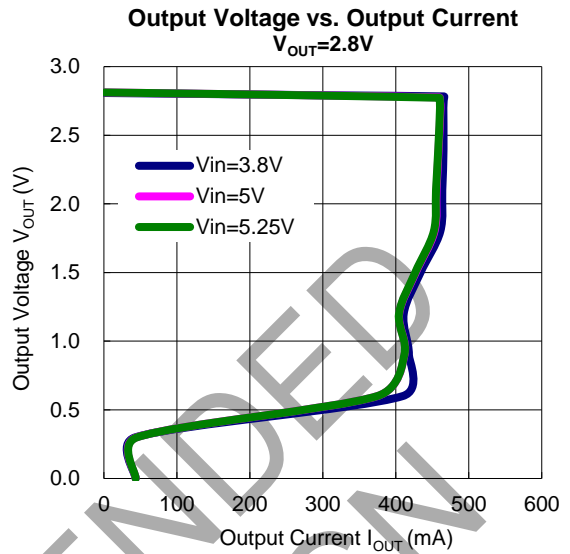
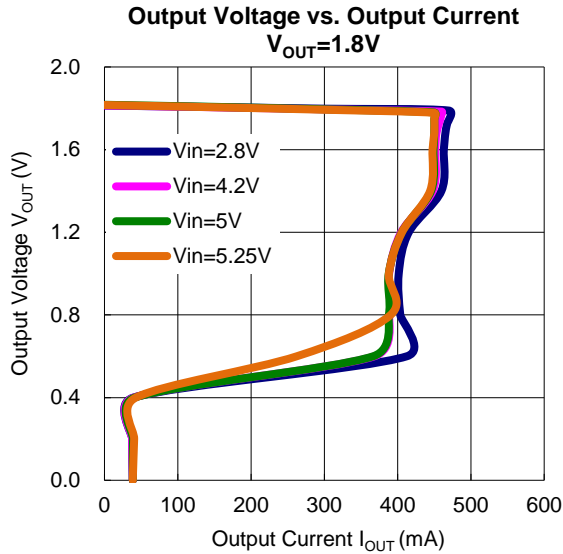
**Electrical Characteristics** (@ $T_A = +25^\circ\text{C}$ ,  $V_{IN} = V_{OUT} + 1\text{V}$  ( $V_{OUT} > 1.5\text{V}$ ),  $V_{IN} = 2.5\text{V}$  ( $V_{OUT} \leq 1.5\text{V}$ ),  $I_{OUT} = 1\text{mA}$ ,  $C_{IN} = C_{OUT} = 1.0\mu\text{F}$ , unless otherwise specified.)

Parameter	Conditions	Min	Typ	Max	Unit	
Input Voltage	$T_A = -40^\circ\text{C}$ to $+85^\circ\text{C}$	1.7	—	5.25	V	
Output Voltage Accuracy (Note 5)	$V_{IN} = (V_{OUT-Nom} + 1.0\text{V})$ to $5.25\text{V}$ $I_{OUT} = 1\text{mA}$ to $300\text{mA}$	$T_A = +25^\circ\text{C}$	-1	—	1	%
		$T_A = -40^\circ\text{C}$ to $+85^\circ\text{C}$	-1.5	—	1.5	
Line Regulation ( $\Delta V_{OUT}/\Delta V_{IN}/V_{OUT}$ )	$V_{IN} = (V_{OUT-Nom} + 1.0\text{V})$ to $5.25\text{V}$ , $I_{OUT} = 1.0\text{mA}$	—	0.02	0.1	%/V	
Load Regulation ( $\Delta V_{OUT}/\Delta I_{OUT}$ )	$V_{IN} = V_{OUT-Nom} + 1.0\text{V}$ , $I_{OUT} = 1\text{mA}$ to $300\text{mA}$	—	15	30	mV	
Quiescent Current (Note 6)	Set EN1 High, Set EN2 Low, or Set EN2 High, Set EN1 Low, No Load	—	50	70	$\mu\text{A}$	
	Set EN1/EN2 High, No Load	—	100	140	$\mu\text{A}$	
$I_{STANDBY}$	Set EN1/EN2 Low, No Load	—	0.1	1.0	$\mu\text{A}$	
Output Current	—	300	—	—	mA	
Foldback Short Current (Note 7)	$V_{OUT}$ short to ground	—	55	—	mA	
PSRR (Note 8)	$V_{IN} = (V_{OUT} + 1\text{V}) V_{DC} + 0.2\text{Vp-pAC}$ $V_{OUT} \geq 1.8\text{V}$ , $I_{OUT} = 30\text{mA}$	—	75	—	dB	
Output Noise Voltage (Notes 8 & 9)	$BW = 10\text{Hz}$ to $100\text{kHz}$ , $I_{OUT} = 30\text{mA}$	—	60	—	$\mu\text{Vrms}$	
Dropout Voltage (Note 10)	$I_{OUT} = 300\text{mA}$	$V_{OUT} \leq 1.2\text{V}$	—	0.48	0.59	V
		$1.2\text{V} < V_{OUT} \leq 1.4\text{V}$	—	0.39	0.50	
		$1.4\text{V} < V_{OUT} \leq 1.7\text{V}$	—	0.35	0.44	
		$1.7\text{V} < V_{OUT} \leq 2.1\text{V}$	—	0.30	0.39	
		$2.1\text{V} < V_{OUT} \leq 2.5\text{V}$	—	0.26	0.34	
		$2.5\text{V} < V_{OUT} \leq 3.0\text{V}$	—	0.25	0.30	
		$3.0\text{V} < V_{OUT} \leq 3.6\text{V}$	—	0.22	0.29	
Output Voltage Temperature Coefficient	$I_{OUT} = 30\text{mA}$ , $T_A = -40^\circ\text{C}$ to $+85^\circ\text{C}$	—	$\pm 30$	—	ppm/ $^\circ\text{C}$	
EN Input Low Voltage	—	0	—	0.5	V	
EN Input High Voltage	—	1.3	—	5.25	V	
EN Input Leakage	$V_{EN} = 0\text{V}$ , $V_{IN} = 5.0\text{V}$ or $V_{EN} = 5.0\text{V}$ , $V_{IN} = 0\text{V}$	-1.0	—	1.0	$\mu\text{A}$	
On Resistance of N-Channel for Auto-Discharge (Note 11)	$V_{IN} = 4.0\text{V}$ , $V_{EN} = 0\text{V}$ (Disabled)	D Version, Chanel 1 & 2	—	50	—	$\Omega$

- Notes:
- Potential multiple grades based on following output voltage accuracy.
  - Quiescent current is defined here is the difference in current between the input and the output.
  - Short circuit current is measured with  $V_{OUT}$  pulled to GND.
  - This specification is guaranteed by design.
  - To make sure lowest environment noise minimizes the influence on noise measurement.
  - Dropout voltage is the voltage difference between the input and the output at which the output voltage drops 2% below its nominal value.
  - AP7344 has 2 options for output, built-in discharge and non-discharge

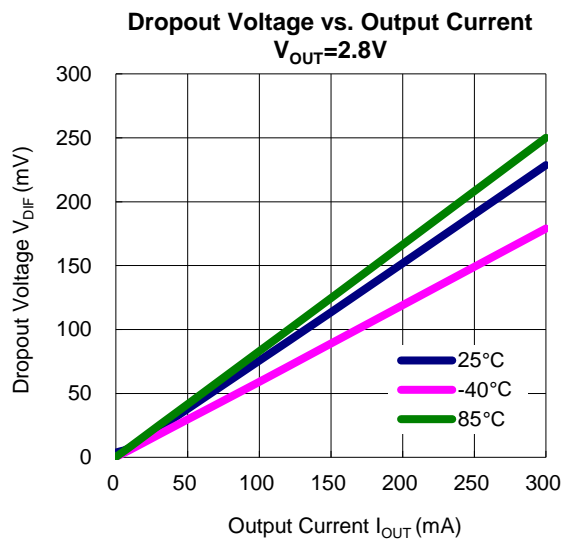
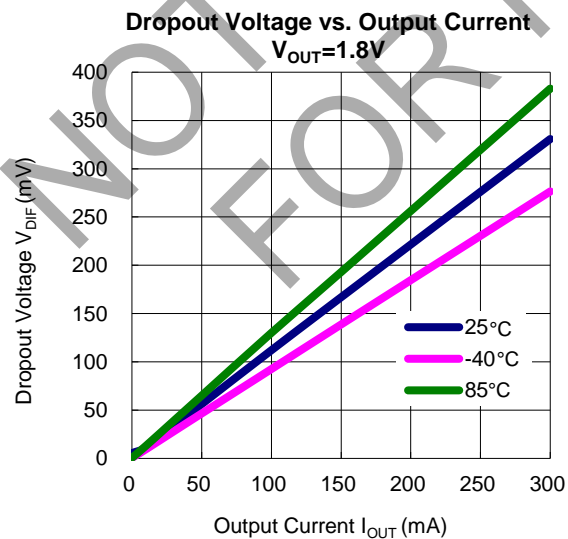
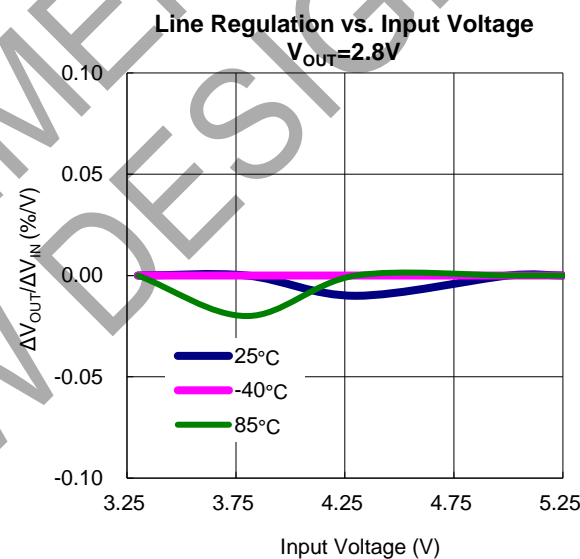
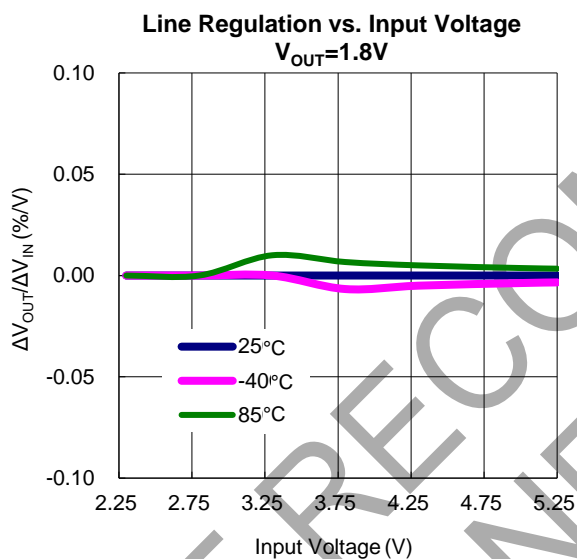
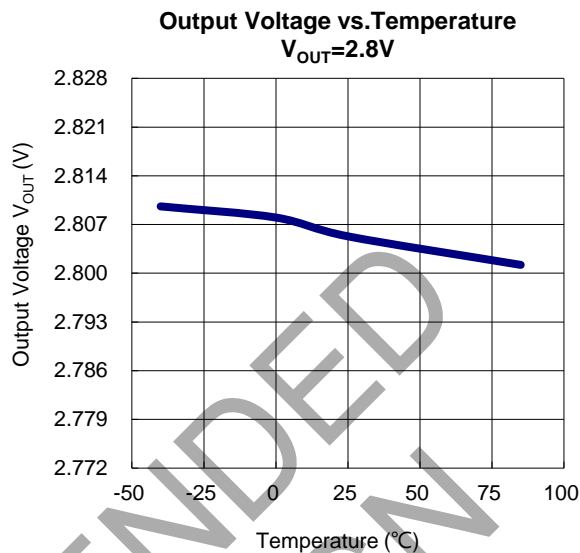
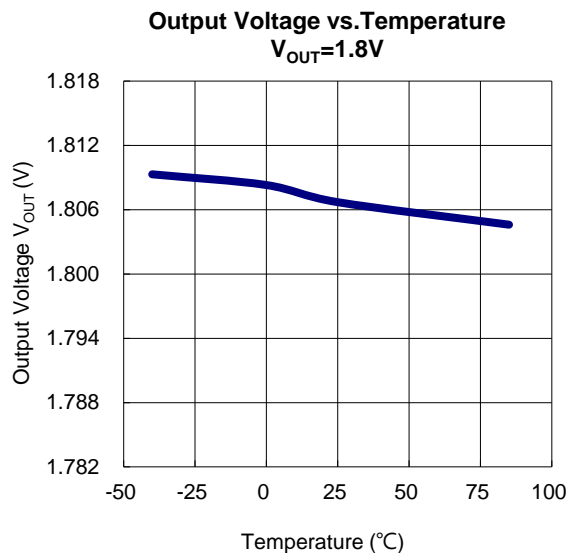


Performance Characteristics





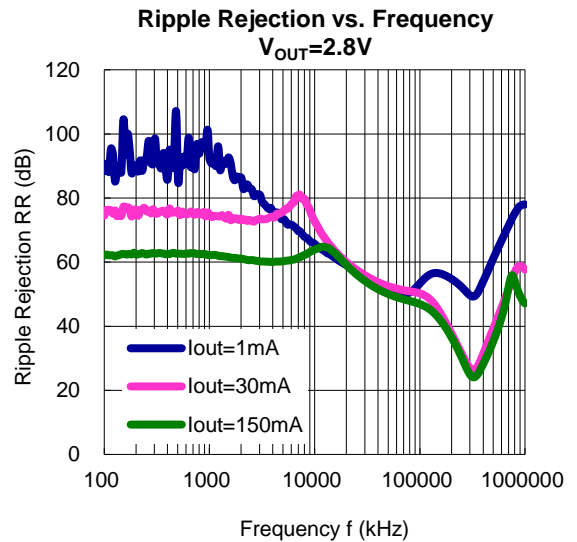
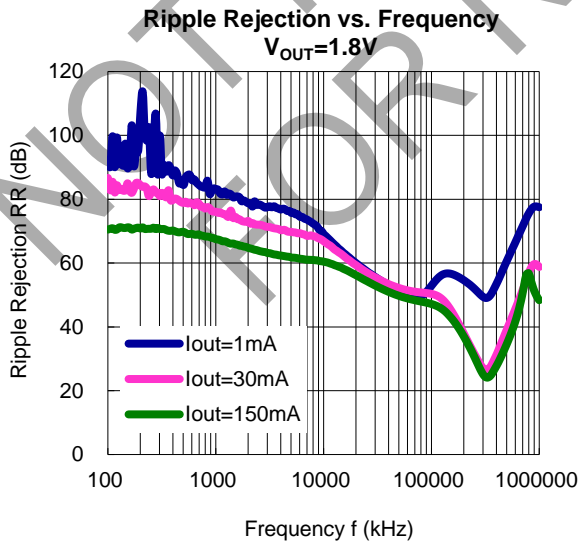
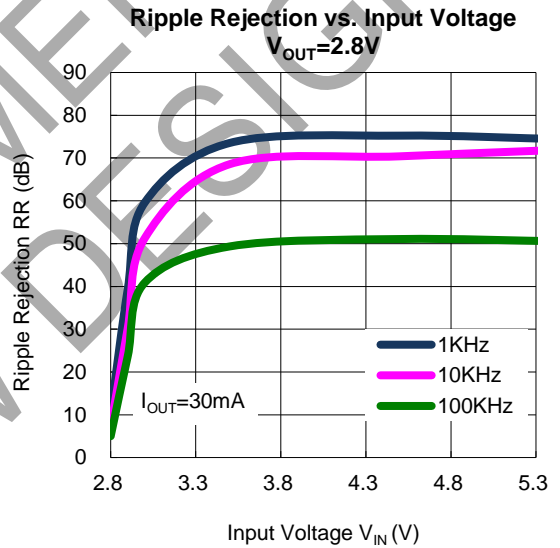
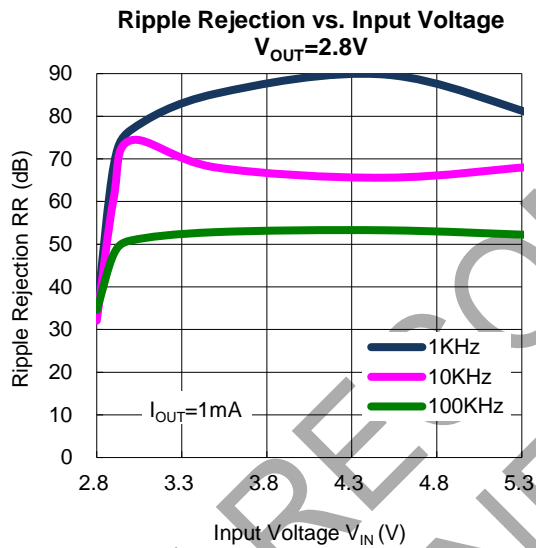
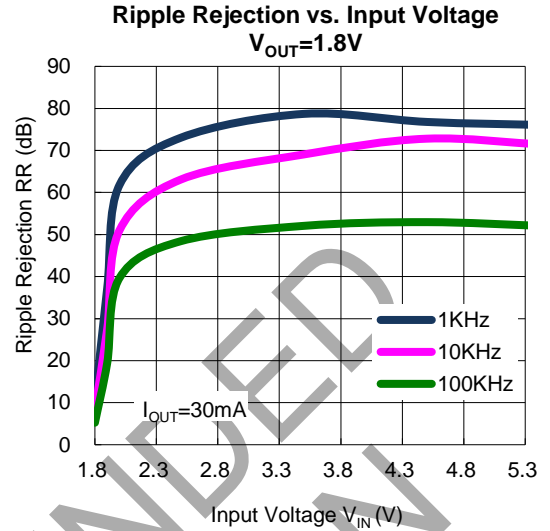
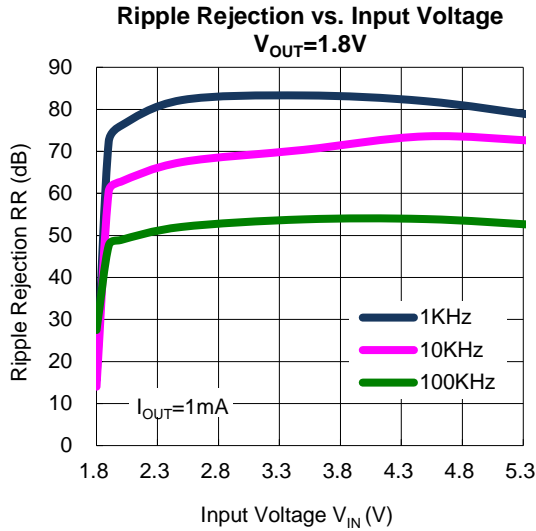
Performance Characteristics (continued)







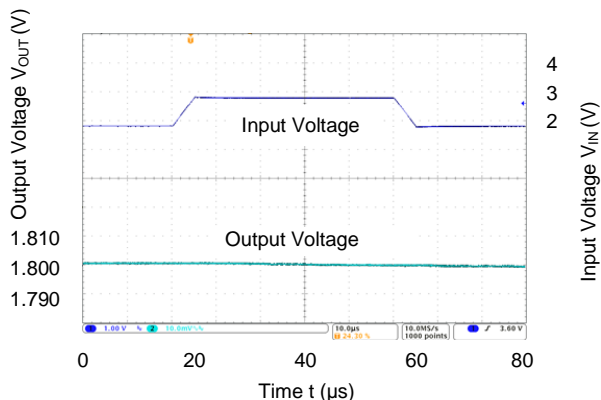
Performance Characteristics (continued)



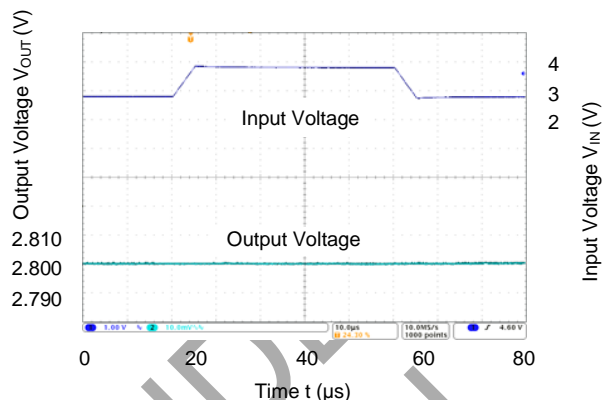


Performance Characteristics (continued)

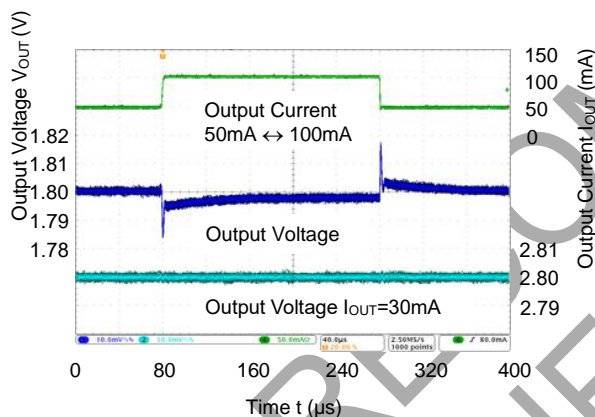
Line Transient Response Waveforms  
 $V_{OUT}=1.8V$



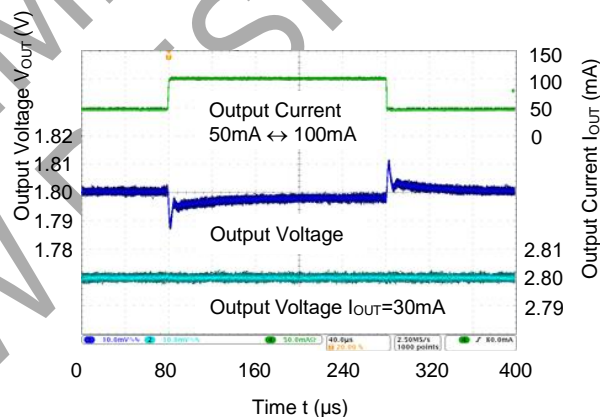
Line Transient Response Waveforms  
 $V_{OUT}=2.8V$



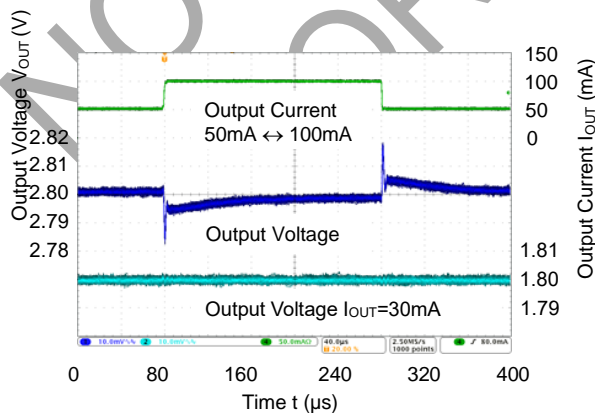
Load Transient Response Waveforms  
 $V_{OUT}=1.8V, C_{OUT}=1\mu F$



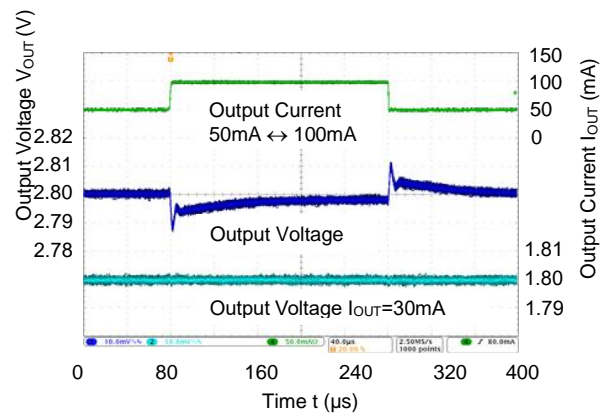
Load Transient Response Waveforms  
 $V_{OUT}=1.8V, C_{OUT}=4.7\mu F$



Load Transient Response Waveforms  
 $V_{OUT}=2.8V, C_{OUT}=1\mu F$



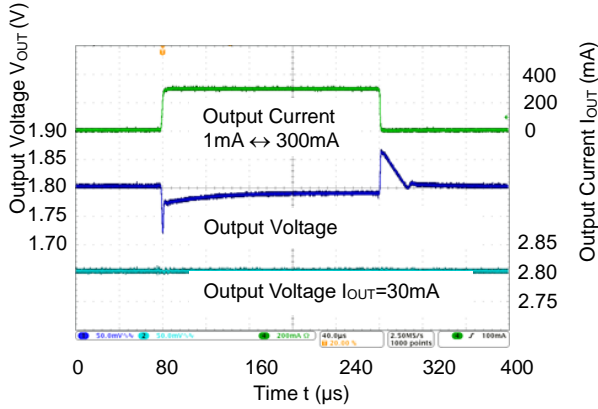
Load Transient Response Waveforms  
 $V_{OUT}=2.8V, C_{OUT}=4.7\mu F$



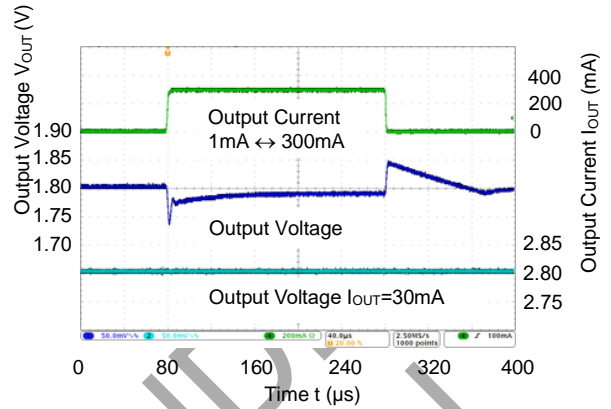


Performance Characteristics (continued)

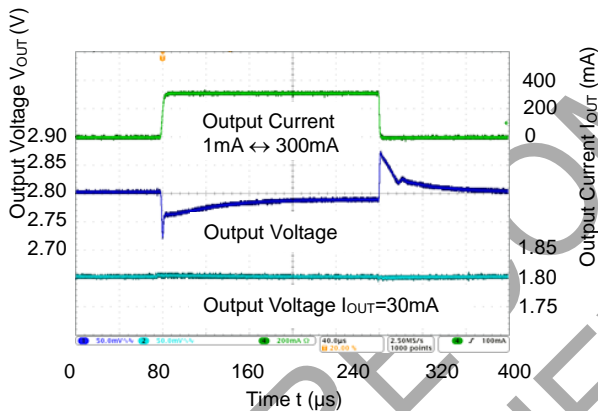
Load Transient Response Waveforms  
 $V_{OUT}=1.8V$ ,  $C_{OUT}=1\mu F$



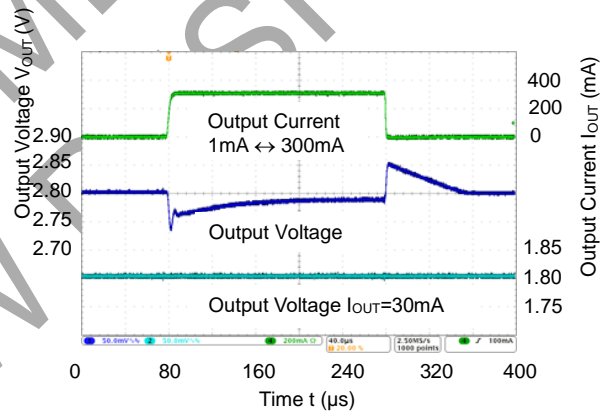
Load Transient Response Waveforms  
 $V_{OUT}=1.8V$ ,  $C_{OUT}=4.7\mu F$



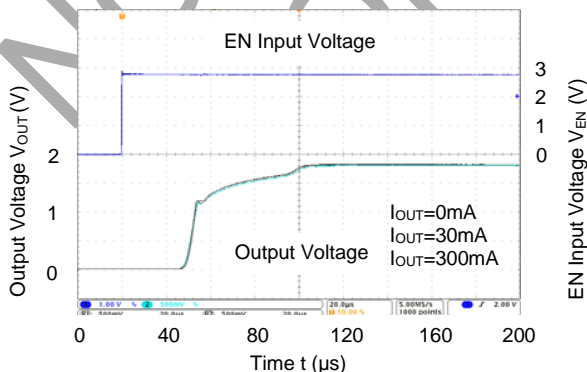
Load Transient Response Waveforms  
 $V_{OUT}=2.8V$ ,  $C_{OUT}=1\mu F$



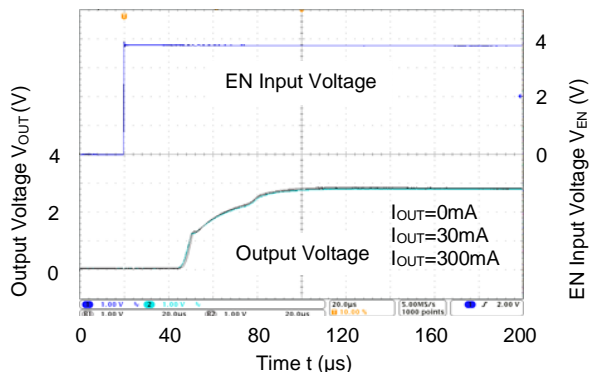
Load Transient Response Waveforms  
 $V_{OUT}=2.8V$ ,  $C_{OUT}=4.7\mu F$



Turn On Waveforms  
 $V_{OUT}=1.8V$

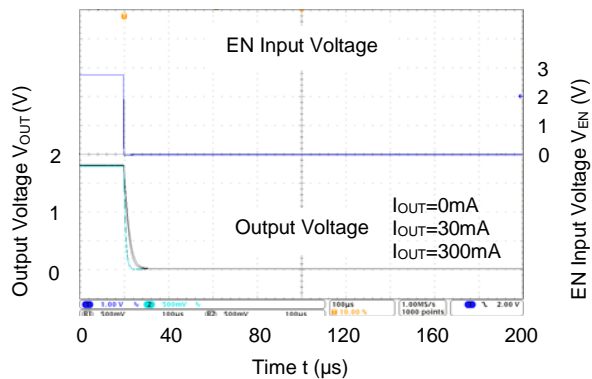


Turn On Waveforms  
 $V_{OUT}=2.8V$

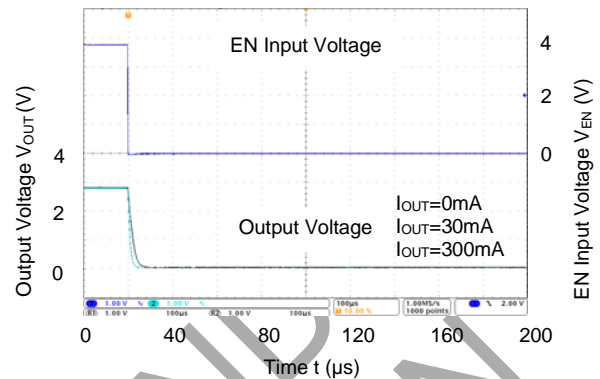


## Performance Characteristics (continued)

Turn Off Waveforms  
 $V_{OUT}=1.8V$



Turn Off Waveforms  
 $V_{OUT}=2.8V$



## Application Information

### Output Capacitor

An output capacitor ( $C_{OUT}$ ) is needed to improve transient response and maintain stability. The AP7344 is stable with very small ceramic output capacitors. The ESR (Equivalent Series Resistance) and capacitance drives the selection. If the application has large load variations, it is recommended to utilize low-ESR bulk capacitors. It is recommended to place ceramic capacitors as close as possible to the load and the GND pins and care should be taken to reduce the impedance in the layout.

### Input Capacitor

To prevent the input voltage from dropping during load steps, it is recommended to utilize an input capacitor ( $C_{IN}$ ). A minimum  $0.47\mu F$  ceramic capacitor is recommended between  $V_{IN}$  and GND pins to decouple input power supply glitch. This input capacitor must be located as close as possible to the device to ensure input stability and reduce noise. For PCB layout, a wide copper trace is required for both  $V_{IN}$  and GND pins.

### Enable Control

The AP7344 is turned on by setting the EN pins high, and is turned off by pulling it low. If this feature is not used, the EN pins should be tied to  $V_{IN}$  pins to keep the regulator output on at all time. To ensure proper operation, the signal source used to drive the EN pins must be able to swing above and below the specified turn-on/off voltage thresholds listed in the *Electrical Characteristics* section.

### Short-Circuit Protection

When  $V_{OUT}$  pins are short-circuit to GND, short-circuit protection will be triggered and clamp the output current to approximately 60mA. This feature protects the regulator from overcurrent and damage due to overheating.

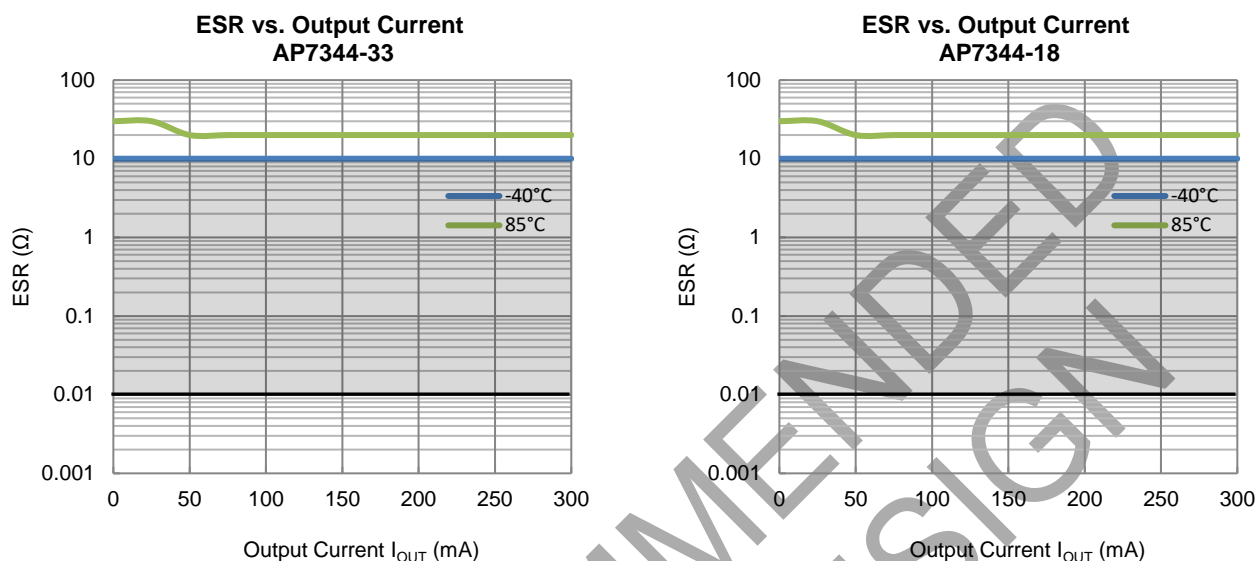
### Layout Considerations

For good ground loop and stability, the input and output capacitors should be located close to the input, output, and GND pins of the device. The regulator GND pins should be connected to the external circuit ground to reduce voltage drop caused by trace impedance. Ground plane is generally used to reduce trace impedance. Wide trace should be used for large current paths from  $V_{IN}$  to  $V_{OUT}$ , and load circuit.

## ESR vs. Output Current

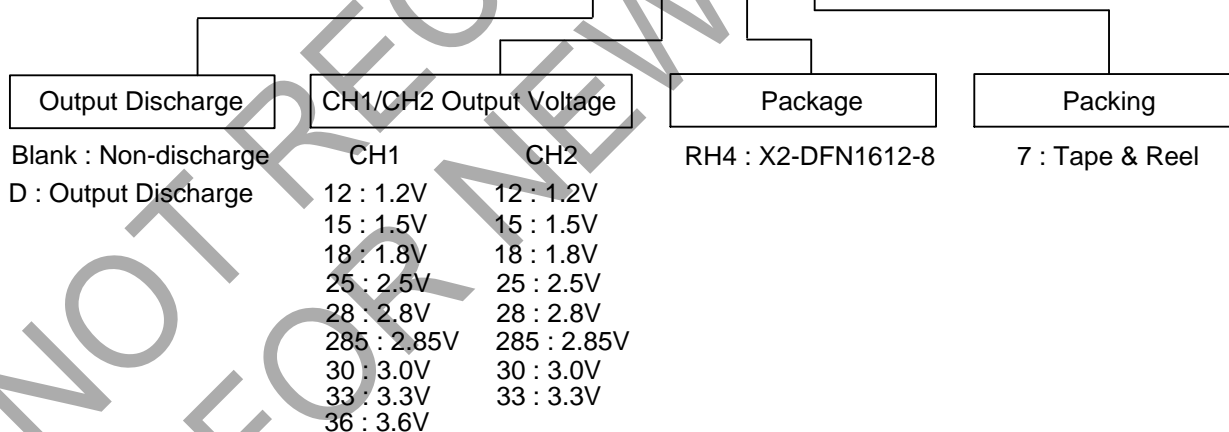
Ceramic type output capacitor is recommended for this series; however, the other output capacitors with low ESR also can be used. The relations between  $I_{OUT}$  (Output Current) and ESR of an output capacitor are shown below. The stable region is marked as the hatched area in the graph.

Measurement conditions: Frequency Band: 10Hz to 2MHz, Temperature:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ .



## Ordering Information

### AP7344X - XXXXXX RH4 - 7

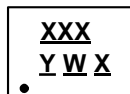


Part Number	Part Number Suffix	Package Code	Package	Packing	
				Qty.	Carrier
AP7344-XXXXRH4-7	-7	RH4	X2-DFN1612-8	5000	7" Tape and Reel
AP7344D-XXXXXXRH4-7	-7	RH4	X2-DFN1612-8	5000	7" Tape and Reel

## Marking Information

(1) X2-DFN1612-8

(Top View)



XXX : Identification Code

Y : Year : 0 to 9

W : Week : A to Z : week 1 to 26;

a to z : week 27 to 52; z represents week 52 and 53

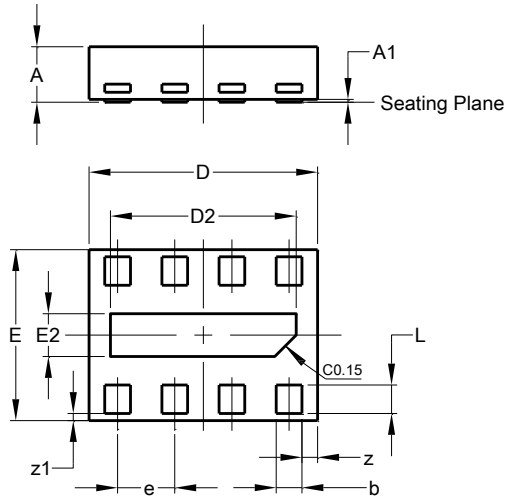
X : Internal Code

Part Number	Vout1/Vout2	Package	Identification Code
AP7344-3028RH4-7	3.0V/2.8V	X2-DFN1612-8	DAA
AP7344-3328RH4-7	3.3V/2.8V	X2-DFN1612-8	DAB
AP7344-3318RH4-7	3.3V/1.8V	X2-DFN1612-8	DAC
AP7344D-1218RH4-7	1.2V/1.8V	X2-DFN1612-8	DAD
AP7344D-1528RH4-7	1.5V/2.8V	X2-DFN1612-8	DAE
AP7344D-1812RH4-7	1.8V/1.2V	X2-DFN1612-8	DAF
AP7344D-1815RH4-7	1.8V/1.5V	X2-DFN1612-8	DAG
AP7344D-1818RH4-7	1.8V/1.8V	X2-DFN1612-8	DAH
AP7344D-1828RH4-7	1.8V/2.8V	X2-DFN1612-8	DAJ
AP7344D-1833RH4-7	1.8V/3.3V	X2-DFN1612-8	DAK
AP7344D-2518RH4-7	2.5V/1.8V	X2-DFN1612-8	DAM
AP7344D-2812RH4-7	2.8V/1.2V	X2-DFN1612-8	DAN
AP7344D-2818RH4-7	2.8V/1.8V	X2-DFN1612-8	DAP
AP7344D-2825RH4-7	2.8V/2.5V	X2-DFN1612-8	DAR
AP7344D-2833RH4-7	2.8V/3.3V	X2-DFN1612-8	DAS
AP7344D-2828RH4-7	2.8V/2.8V	X2-DFN1612-8	DAT
AP7344D-285285RH4-7	2.85V/2.85V	X2-DFN1612-8	DAU
AP7344D-3018RH4-7	3.0V/1.8V	X2-DFN1612-8	DAV
AP7344D-3028RH4-7	3.0V/2.8V	X2-DFN1612-8	DAW
AP7344D-3030RH4-7	3.0V/3.0V	X2-DFN1612-8	DAX
AP7344D-3318RH4-7	3.3V/1.8V	X2-DFN1612-8	DAY
AP7344D-3328RH4-7	3.3V/2.8V	X2-DFN1612-8	DAZ
AP7344D-3330RH4-7	3.3V/3.0V	X2-DFN1612-8	DA2
AP7344D-3333RH4-7	3.3V/3.3V	X2-DFN1612-8	DA3
AP7344D-3612RH4-7	3.6V/1.2V	X2-DFN1612-8	DA4

## Package Outline Dimensions

Please see <http://www.diodes.com/package-outlines.html> for the latest version.

### (1) Package Type: X2-DFN1612-8

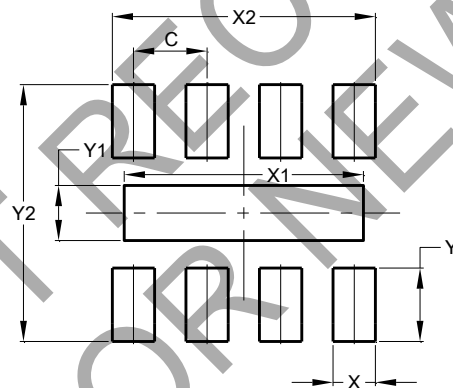


X2-DFN1612-8			
Dim	Min	Max	Typ
A	—	0.40	0.39
A1	0.00	0.05	0.02
b	0.13	0.23	0.18
D	1.55	1.65	1.60
D2	1.25	1.35	1.30
E	1.15	1.25	1.20
E2	0.25	0.35	0.30
e	—	—	0.40
L	0.15	0.25	0.20
z	—	—	0.11
z1	—	—	0.05
All Dimensions in mm			

## Suggested Pad Layout

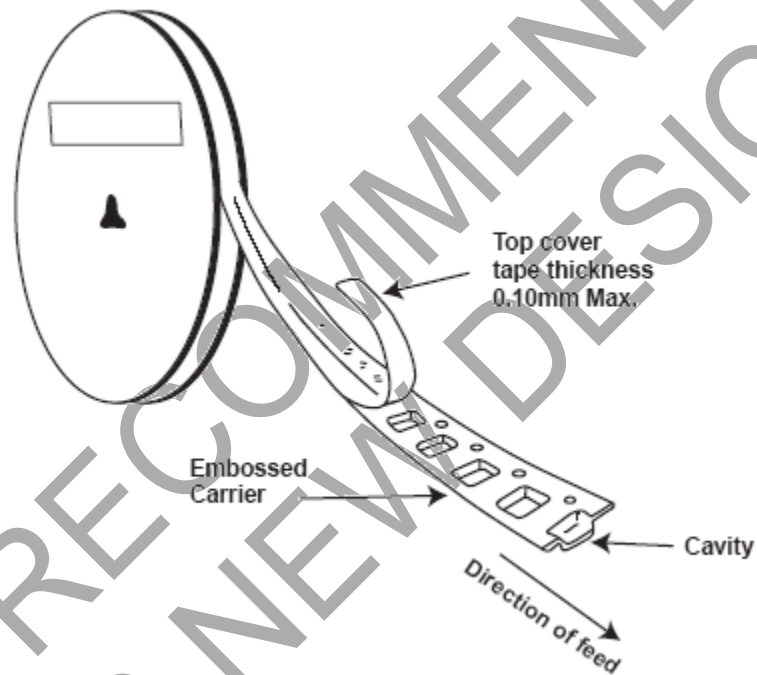
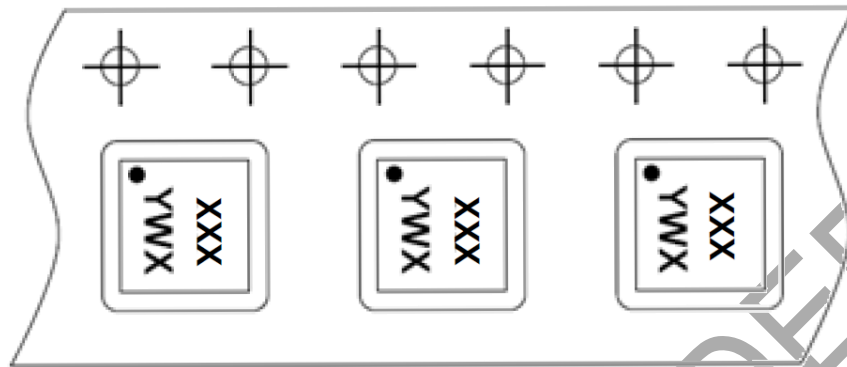
Please see <http://www.diodes.com/package-outlines.html> for the latest version.

### (1) Package Type: X2-DFN1612-8



Dimensions	Value (in mm)
C	0.400
X	0.230
X1	1.300
X2	1.430
Y	0.400
Y1	0.300
Y2	1.400

## Tape Orientation



Note: 12. The taping orientation of the other package type can be found on our website at <https://www.diodes.com/assets/Packaging-Support-Docs/ap02007.pdf>.



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