

Description

The AP2122 series are positive voltage regulator ICs fabricated by CMOS process. Each of these ICs consists of a voltage reference, an error amplifier, a resistor network for setting output voltage, a current limit circuit for current protection and a chip enable circuit.

The AP2122 series feature high ripple rejection, low dropout voltage, low noise, high output voltage accuracy, and low current consumption which make them ideal for use in various battery-powered devices.

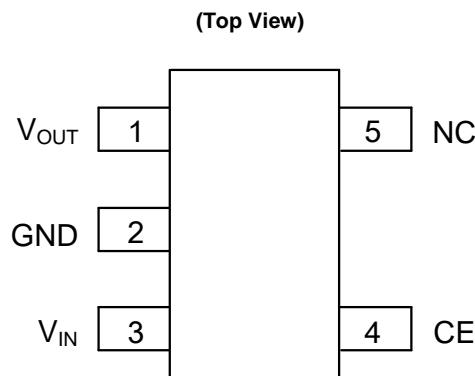
The AP2122 series have 1.5V, 1.8V, 2.5V, 2.8V, 3.0V, 3.2V and 3.3V versions.

The AP2122 are available in standard SOT-23-5 package.

Features

- Low Dropout Voltage at $I_{OUT} = 100mA$: 150mV Typical (Except 1.5V Version)
- Low Standby Current: 0.1 μA Typical
- Low Quiescent Current: 25 μA Typical
- High Ripple Rejection: 70dB Typical ($f = 10kHz$)
- Maximum Output Current: More Than 150mA (300mA Limit)
- Extremely Low Noise: 30 μV_{rms} (10Hz to 100kHz)
- Excellent Line Regulation: 4mV Typical
- Excellent Load Regulation: 12mV Typical
- High Output Voltage Accuracy: $\pm 2\%$
- Excellent Line and Load Transient Response
- Compatible with Low ESR Ceramic Capacitor (as Low as 1 μF)

Pin Assignments

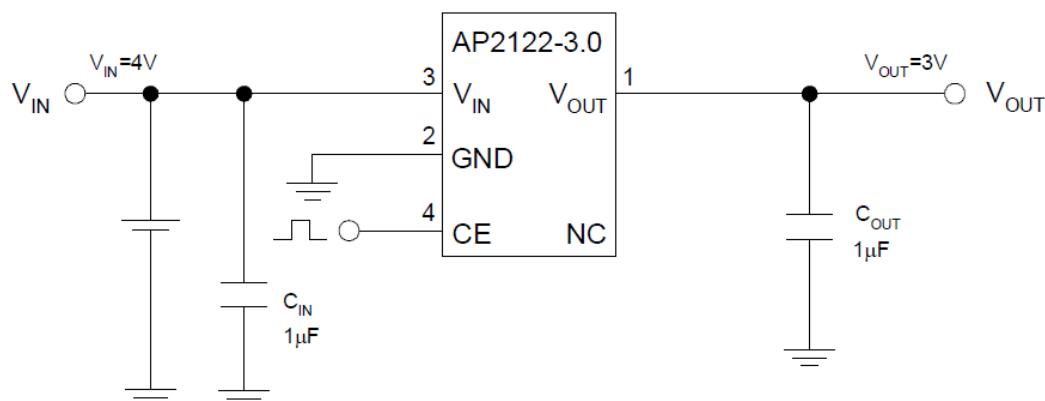


SOT-23-5

Applications

- Mobile Phones, Cordless Phones
- MP3/4
- Portable Electronic Devices
- Cameras, Video Recorders
- Sub-board Power Supplies for Telecom Equipment
- Battery Powered Equipment

Typical Applications Circuit (Note 1)

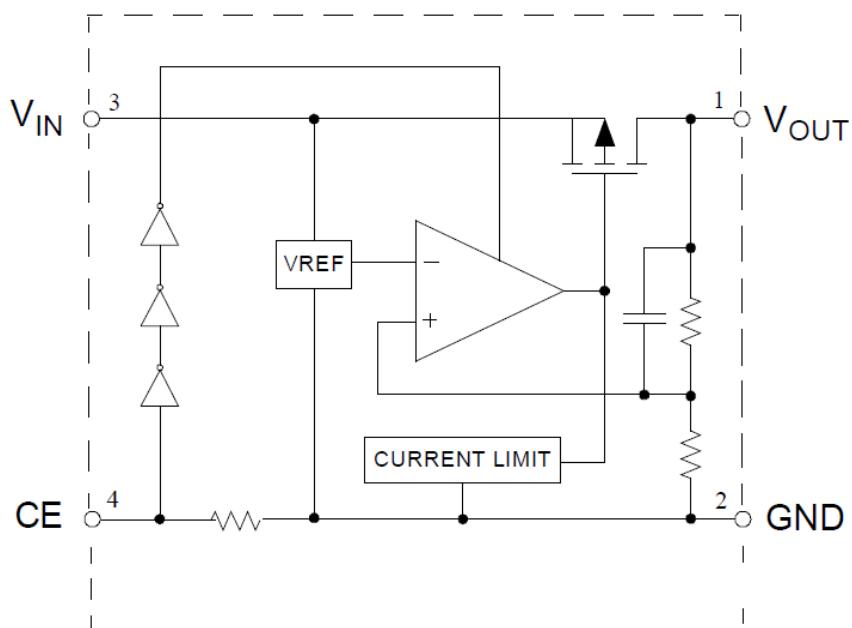


Note 1: Filter capacitors are required at the AP2122's input and output. 1 μF capacitor is required at the input. The minimum output capacitance required for stability should be more than 1 μF with ESR from 0.01 Ω to 100 Ω . Ceramic capacitors are recommended.

Pin Descriptions

Pin Number	Pin Name	Function
1	V _{OUT}	Regulated output voltage
2	GND	Ground
3	V _{IN}	Input voltage
4	CE	Active high enable input pin. Logic high=enable, logic low=shutdown
5	NC	No connection

Functional Block Diagram



Absolute Maximum Ratings (Note 2)

Symbol	Parameter	Rating	Unit
V _{IN}	Input Voltage	6.5	V
V _{CE}	Enable Input Voltage	-0.3 to V _{IN} +0.3	V
I _{OUT}	Output Current	300	mA
T _J	Junction Temperature	+150	°C
T _{STG}	Storage Temperature Range	-65 to +150	°C
T _{LEAD}	Lead Temperature (Soldering, 10sec)	+260	°C
θ _{JA}	Thermal Resistance (Note 3)	250	°C/W
ESD	ESD (Human Body Model)	2000	V
ESD	ESD (Machine Model)	200	V

- Notes:
- 2. Stresses greater than those listed under "Absolute Maximum Ratings" may 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 may affect device reliability.
 - 3. Absolute maximum ratings indicate limits beyond which damage to the component may occur. Electrical specifications do not apply when operating the device outside of its operating ratings. The maximum allowable power dissipation is a function of the maximum junction temperature, T_{J(max)}, the junction-to-ambient thermal resistance, θ_{JA}, and the ambient temperature, T_A. The maximum allowable power dissipation at any ambient temperature is calculated using: P_{D(max)}=(T_{J(max)} - T_A) / θ_{JA}. Exceeding the maximum allowable power dissipation will result in excessive die temperature.

Recommended Operating Conditions

Symbol	Parameter	Min	Max	Unit
V _{IN}	Input Voltage	2	6	V
T _J	Operating Junction Temperature Range	-40	+85	°C

Electrical Characteristics

AP2122-1.5 Electrical Characteristics (@ $V_{IN} = 2.5V$, $T_J = +25^{\circ}C$, $C_{IN} = 1\mu F$, $C_{OUT} = 1\mu F$, **Bold** typeface applies over $-40^{\circ}C \leq T_J \leq +85^{\circ}C$, unless otherwise specified.)

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V_{OUT}	Output Voltage	$V_{IN} = 2.5V$ $1mA \leq I_{OUT} \leq 30mA$	1.47	1.5	1.53	V
V_{IN}	Input Voltage	—	—	—	6	V
I_{OUT}	Output Current	$V_{IN}-V_{OUT} = 1V$	150	—	—	mA
V_{RLOAD}	Load Regulation	$V_{IN} = 2.5V$ $1mA \leq I_{OUT} \leq 80mA$	—	12	40	mV
V_{RLINE}	Line Regulation	$2.3V \leq V_{IN} \leq 6V$ $I_{OUT} = 30mA$	—	4	16	mV
V_{DROP}	Dropout Voltage	$I_{OUT} = 10mA$	—	400	600	mV
		$I_{OUT} = 100mA$	—	400	600	
		$I_{OUT} = 150mA$	—	400	600	
I_Q	Quiescent Current	$V_{IN} = 2.5V$, $I_{OUT} = 0mA$	—	25	50	µA
I_{STD}	Standby Current	$V_{IN} = 2.5V$ V_{CE} in OFF Mode	—	0.1	1	µA
PSRR	Power Supply Rejection Ratio	Ripple 0.5Vp-p, $f = 10kHz$ $V_{IN} = 2.5V$	—	70	—	dB
$\Delta V_{OUT}/\Delta T$	Output Voltage Temperature Coefficient	$I_{OUT} = 30mA$	—	±150	—	µV/°C
$(\Delta V_{OUT}/V_{OUT})/\Delta T$			—	±100	—	ppm/°C
I_{LIMIT}	Short Current Limit	$V_{OUT} = 0V$	—	50	—	mA
V_{NOISE}	RMS Output Noise	$T_A = +25^{\circ}C$ $10Hz \leq f \leq 100kHz$	—	30	—	µVRms
—	CE "High" Voltage	CE Input Voltage "High"	1.5	—	—	V
—	CE "Low" Voltage	CE Input Voltage "Low"	—	—	0.25	V
R_{PD}	CE Pull-down Internal Resistance	—	2.5	5	10	MΩ
θ_{JC}	Thermal Resistance (Junction to Case)	SOT-23-5	—	73.9	—	°C/W

Electrical Characteristics (Cont.)

AP2122-1.8 Electrical Characteristics (@ $V_{IN} = 2.8V$, $T_J = +25^{\circ}C$, $C_{IN} = 1\mu F$, $C_{OUT} = 1\mu F$, **Bold** typeface applies over $-40^{\circ}C \leq T_J \leq +85^{\circ}C$, unless otherwise specified.)

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V_{OUT}	Output Voltage	$V_{IN} = 2.8V$ $1mA \leq I_{OUT} \leq 30mA$	1.764	1.8	1.836	V
V_{IN}	Input Voltage	—	—	—	6	V
I_{OUT}	Output Current	$V_{IN}-V_{OUT} = 1V$	150	—	—	mA
V_{RLOAD}	Load Regulation	$V_{IN} = 2.8V$ $1mA \leq I_{OUT} \leq 80mA$	—	12	40	mV
V_{RLINE}	Line Regulation	$2.3V \leq V_{IN} \leq 6V$ $I_{OUT} = 30mA$	—	4	16	mV
V_{DROP}	Dropout Voltage	$I_{OUT} = 10mA$	—	20	40	mV
		$I_{OUT} = 100mA$	—	150	300	
		$I_{OUT} = 150mA$	—	200	400	
I_Q	Quiescent Current	$V_{IN} = 2.8V$, $I_{OUT} = 0mA$	—	25	50	µA
I_{STD}	Standby Current	$V_{IN} = 2.8V$ V_{CE} in OFF Mode	—	0.1	1	µA
PSRR	Power Supply Rejection Ratio	Ripple 0.5Vp-p, $f = 10kHz$ $V_{IN} = 2.8V$	—	70	—	dB
$\Delta V_{OUT}/\Delta T$	Output Voltage Temperature Coefficient	$I_{OUT} = 30mA$	—	±180	—	µV/°C
$(\Delta V_{OUT}/V_{OUT})/\Delta T$			—	±100	—	ppm/°C
I_{LIMIT}	Short Current Limit	$V_{OUT} = 0V$	—	50	—	mA
V_{NOISE}	RMS Output Noise	$T_A = +25^{\circ}C$ $10Hz \leq f \leq 100kHz$	—	30	—	µVRms
—	CE "High" Voltage	CE Input Voltage "High"	1.5	—	—	V
—	CE "Low" Voltage	CE Input Voltage "Low"	—	—	0.25	V
R_{PD}	CE Pull-down Internal Resistance	—	2.5	5	10	MΩ
θ_{JC}	Thermal Resistance (Junction to Case)	SOT-23-5	—	73.9	—	°C/W

Electrical Characteristics (Cont.)

AP2122-2.5 Electrical Characteristics (@ $V_{IN} = 3.5V$, $T_J = +25^{\circ}C$, $C_{IN} = 1\mu F$, $C_{OUT} = 1\mu F$, **Bold** typeface applies over $-40^{\circ}C \leq T_J \leq +85^{\circ}C$, unless otherwise specified.)

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V_{OUT}	Output Voltage	$V_{IN} = 3.5V$ $1mA \leq I_{OUT} \leq 30mA$	2.45	2.5	2.55	V
V_{IN}	Input Voltage	—	—	—	6	V
I_{OUT}	Output Current	$V_{IN}-V_{OUT} = 1V$	150	—	—	mA
V_{RLOAD}	Load Regulation	$V_{IN} = 3.5V$ $1mA \leq I_{OUT} \leq 80mA$	—	12	40	mV
V_{RLINE}	Line Regulation	$3V \leq V_{IN} \leq 6V$ $I_{OUT} = 30mA$	—	4	16	mV
V_{DROP}	Dropout Voltage	$I_{OUT} = 10mA$	—	20	40	mV
		$I_{OUT} = 100mA$	—	150	300	
		$I_{OUT} = 150mA$	—	200	400	
I_Q	Quiescent Current	$V_{IN} = 3.5V$, $I_{OUT} = 0mA$	—	25	50	µA
I_{STD}	Standby Current	$V_{IN} = 3.5V$ V_{CE} in OFF Mode	—	0.1	1	µA
PSRR	Power Supply Rejection Ratio	Ripple 0.5Vp-p, $f = 10kHz$ $V_{IN} = 3.5V$	—	70	—	dB
$\Delta V_{OUT}/\Delta T$	Output Voltage Temperature Coefficient	$I_{OUT} = 30mA$	—	±250	—	µV/°C
$(\Delta V_{OUT}/V_{OUT})/\Delta T$			—	±100	—	ppm/°C
I_{LIMIT}	Short Current Limit	$V_{OUT} = 0V$	—	50	—	mA
V_{NOISE}	RMS Output Noise	$T_A = +25^{\circ}C$ $10Hz \leq f \leq 100kHz$	—	30	—	µVRms
—	CE "High" Voltage	CE Input Voltage "High"	1.5	—	—	V
—	CE "Low" Voltage	CE Input Voltage "Low"	—	—	0.25	V
R_{PD}	CE Pull-down Internal Resistance	—	2.5	5	10	MΩ
θ_{JC}	Thermal Resistance (Junction to Case)	SOT-23-5	—	73.9	—	°C/W

Electrical Characteristics (Cont.)

AP2122-2.8 Electrical Characteristics (@ $V_{IN} = 3.8V$, $T_J = +25^{\circ}C$, $C_{IN} = 1\mu F$, $C_{OUT} = 1\mu F$, **Bold** typeface applies over $-40^{\circ}C \leq T_J \leq +85^{\circ}C$, unless otherwise specified.)

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V_{OUT}	Output Voltage	$V_{IN} = 3.8V$ $1mA \leq I_{OUT} \leq 30mA$	2.744	2.8	2.856	V
V_{IN}	Input Voltage	—	—	—	6	V
I_{OUT}	Output Current	$V_{IN}-V_{OUT} = 1V$	150	—	—	mA
V_{RLOAD}	Load Regulation	$V_{IN} = 3.8V$ $1mA \leq I_{OUT} \leq 80mA$	—	12	40	mV
V_{RLINE}	Line Regulation	$3.3V \leq V_{IN} \leq 6V$ $I_{OUT} = 30mA$	—	4	16	mV
V_{DROP}	Dropout Voltage	$I_{OUT} = 10mA$	—	20	40	mV
		$I_{OUT} = 100mA$	—	150	300	
		$I_{OUT} = 150mA$	—	200	400	
I_Q	Quiescent Current	$V_{IN} = 3.8V$, $I_{OUT} = 0mA$	—	25	50	µA
I_{STD}	Standby Current	$V_{IN} = 3.8V$ V_{CE} in OFF Mode	—	0.1	1	µA
PSRR	Power Supply Rejection Ratio	Ripple 0.5Vp-p, $f = 10kHz$ $V_{IN} = 3.8V$	—	70	—	dB
$\Delta V_{OUT}/\Delta T$	Output Voltage Temperature Coefficient	$I_{OUT} = 30mA$	—	±280	—	µV/°C
$(\Delta V_{OUT}/V_{OUT})/\Delta T$			—	±100	—	ppm/°C
I_{LIMIT}	Short Current Limit	$V_{OUT} = 0V$	—	50	—	mA
V_{NOISE}	RMS Output Noise	$T_A = +25^{\circ}C$ $10Hz \leq f \leq 100kHz$	—	30	—	µVRms
—	CE "High" Voltage	CE Input Voltage "High"	1.5	—	—	V
—	CE "Low" Voltage	CE Input Voltage "Low"	—	—	0.25	V
R_{PD}	CE Pull-down Internal Resistance	—	2.5	5	10	MΩ
θ_{JC}	Thermal Resistance (Junction to Case)	SOT-23-5	—	73.9	—	°C/W

Electrical Characteristics (Cont.)

AP2122-3.0 Electrical Characteristics (@ $V_{IN} = 4V$, $T_J = +25^{\circ}C$, $C_{IN} = 1\mu F$, $C_{OUT} = 1\mu F$, **Bold** typeface applies over $-40^{\circ}C \leq T_J \leq +85^{\circ}C$, unless otherwise specified.)

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V_{OUT}	Output Voltage	$V_{IN} = 4V$ $1mA \leq I_{OUT} \leq 30mA$	2.94	3.0	3.06	V
V_{IN}	Input Voltage	—	—	—	6	V
I_{OUT}	Output Current	$V_{IN}-V_{OUT} = 1V$	150	—	—	mA
V_{RLOAD}	Load Regulation	$V_{IN} = 4V$ $1mA \leq I_{OUT} \leq 80mA$	—	12	40	mV
V_{RLINE}	Line Regulation	$3.5V \leq V_{IN} \leq 6V$ $I_{OUT} = 30mA$	—	4	16	mV
V_{DROP}	Dropout Voltage	$I_{OUT} = 10mA$	—	20	40	mV
		$I_{OUT} = 100mA$	—	150	300	
		$I_{OUT} = 150mA$	—	200	400	
I_Q	Quiescent Current	$V_{IN} = 4V$, $I_{OUT} = 0mA$	—	25	50	µA
I_{STD}	Standby Current	$V_{IN} = 4V$ V_{CE} in OFF Mode	—	0.1	1	µA
PSRR	Power Supply Rejection Ratio	Ripple 0.5Vp-p, $f = 10kHz$ $V_{IN} = 4V$	—	70	—	dB
$\Delta V_{OUT}/\Delta T$	Output Voltage Temperature Coefficient	$I_{OUT} = 30mA$	—	±300	—	µV/°C
$(\Delta V_{OUT}/V_{OUT})/\Delta T$			—	±100	—	ppm/°C
I_{LIMIT}	Short Current Limit	$V_{OUT} = 0V$	—	50	—	mA
V_{NOISE}	RMS Output Noise	$T_A = +25^{\circ}C$ $10Hz \leq f \leq 100kHz$	—	30	—	µVRms
—	CE "High" Voltage	CE Input Voltage "High"	1.5	—	—	V
—	CE "Low" Voltage	CE Input Voltage "Low"	—	—	0.25	V
R_{PD}	CE Pull-down Internal Resistance	—	2.5	5	10	MΩ
θ_{JC}	Thermal Resistance (Junction to Case)	SOT-23-5	—	73.9	—	°C/W

Electrical Characteristics (Cont.)

AP2122-3.2 Electrical Characteristics (@ $V_{IN} = 4.2V$, $T_J = +25^\circ C$, $C_{IN} = 1\mu F$, $C_{OUT} = 1\mu F$, **Bold** typeface applies over $-40^\circ C \leq T_J \leq +85^\circ C$, unless otherwise specified.)

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V_{OUT}	Output Voltage	$V_{IN} = 4.2V$ $1mA \leq I_{OUT} \leq 30mA$	3.136	3.2	3.264	V
V_{IN}	Input Voltage	—	—	—	6	V
I_{OUT}	Output Current	$V_{IN}-V_{OUT} = 1V$	150	—	—	mA
V_{RLOAD}	Load Regulation	$V_{IN} = 4.2V$ $1mA \leq I_{OUT} \leq 80mA$	—	12	40	mV
V_{RLINE}	Line Regulation	$3.7V \leq V_{IN} \leq 6V$ $I_{OUT} = 30mA$	—	4	16	mV
V_{DROP}	Dropout Voltage	$I_{OUT} = 10mA$	—	20	40	mV
		$I_{OUT} = 100mA$	—	150	300	
		$I_{OUT} = 150mA$	—	200	400	
I_Q	Quiescent Current	$V_{IN} = 4.2V$, $I_{OUT} = 0mA$	—	25	50	µA
I_{STD}	Standby Current	$V_{IN} = 4.2V$ V_{CE} in OFF Mode	—	0.1	1	µA
PSRR	Power Supply Rejection Ratio	Ripple 0.5Vp-p, $f = 10kHz$ $V_{IN} = 4.2V$	—	70	—	dB
$\Delta V_{OUT}/\Delta T$	Output Voltage Temperature Coefficient	$I_{OUT} = 30mA$	—	±320	—	µV/°C
$(\Delta V_{OUT}/V_{OUT})/\Delta T$			—	±100	—	ppm/°C
I_{LIMIT}	Short Current Limit	$V_{OUT} = 0V$	—	50	—	mA
V_{NOISE}	RMS Output Noise	$T_A = +25^\circ C$ $10Hz \leq f \leq 100kHz$	—	30	—	µVRms
—	CE "High" Voltage	CE Input Voltage "High"	1.5	—	—	V
—	CE "Low" Voltage	CE Input Voltage "Low"	—	—	0.25	V
R_{PD}	CE Pull-down Internal Resistance	—	2.5	5	10	MΩ
θ_{JC}	Thermal Resistance (Junction to Case)	SOT-23-5	—	73.9	—	°C/W

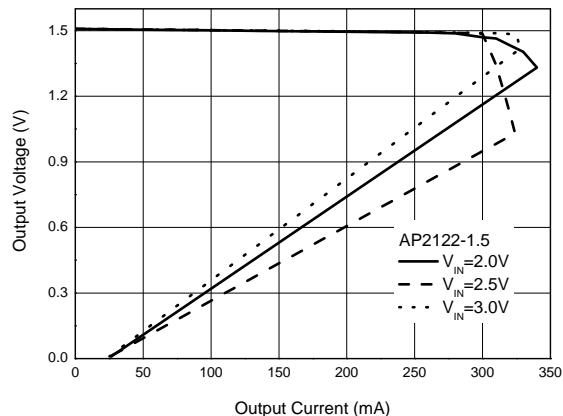
Electrical Characteristics (Cont.)

AP2122-3.3 Electrical Characteristics (@ $V_{IN} = 4.3V$, $T_J = +25^{\circ}C$, $C_{IN} = 1\mu F$, $C_{OUT} = 1\mu F$, **Bold** typeface applies over $-40^{\circ}C \leq T_J \leq +85^{\circ}C$, unless otherwise specified.)

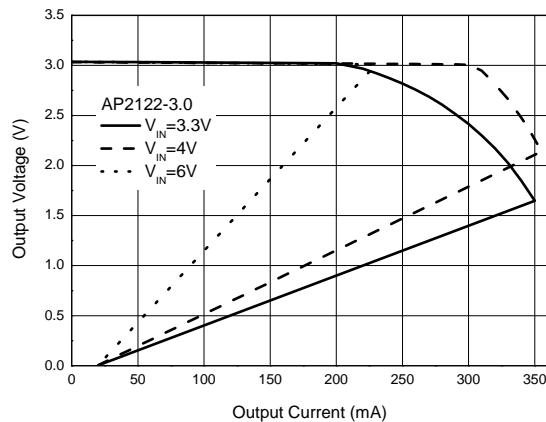
Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V_{OUT}	Output Voltage	$V_{IN} = 4.3V$ $1mA \leq I_{OUT} \leq 30mA$	3.234	3.3	3.366	V
V_{IN}	Input Voltage	—	—	—	6	V
I_{OUT}	Output Current	$V_{IN}-V_{OUT} = 1V$	150	—	—	mA
V_{RLOAD}	Load Regulation	$V_{IN} = 4.3V$ $1mA \leq I_{OUT} \leq 80mA$	—	12	40	mV
V_{RLINE}	Line Regulation	$3.8V \leq V_{IN} \leq 6V$ $I_{OUT} = 30mA$	—	4	16	mV
V_{DROP}	Dropout Voltage	$I_{OUT} = 10mA$	—	20	40	mV
		$I_{OUT} = 100mA$	—	150	300	
		$I_{OUT} = 150mA$	—	200	400	
I_Q	Quiescent Current	$V_{IN} = 4.3V$, $I_{OUT} = 0mA$	—	25	50	µA
I_{STD}	Standby Current	$V_{IN} = 4.3V$ V_{CE} in OFF Mode	—	0.1	1	µA
PSRR	Power Supply Rejection Ratio	Ripple 0.5Vp-p, $f = 10kHz$ $V_{IN} = 4.3V$	—	70	—	dB
$\Delta V_{OUT}/\Delta T$	Output Voltage Temperature Coefficient	$I_{OUT} = 30mA$	—	±330	—	µV/°C
$(\Delta V_{OUT}/V_{OUT})/\Delta T$			—	±100	—	ppm/°C
I_{LIMIT}	Short Current Limit	$V_{OUT} = 0V$	—	50	—	mA
V_{NOISE}	RMS Output Noise	$T_A = +25^{\circ}C$ $10Hz \leq f \leq 100kHz$	—	30	—	µVRms
—	CE "High" Voltage	CE Input Voltage "High"	1.5	—	—	V
—	CE "Low" Voltage	CE Input Voltage "Low"	—	—	0.25	V
R_{PD}	CE Pull-down Internal Resistance	—	2.5	5	10	MΩ
θ_{JC}	Thermal Resistance (Junction to Case)	SOT-23-5	—	73.9	—	°C/W

Performance Characteristics

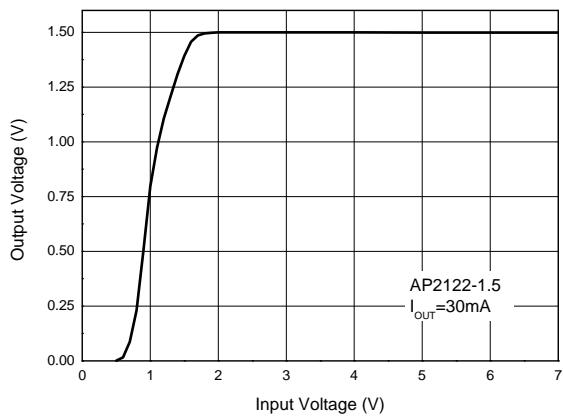
Output Voltage vs. Output Current



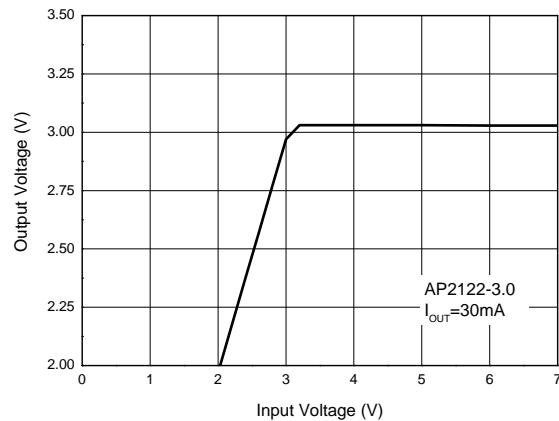
Output Voltage vs. Output Current



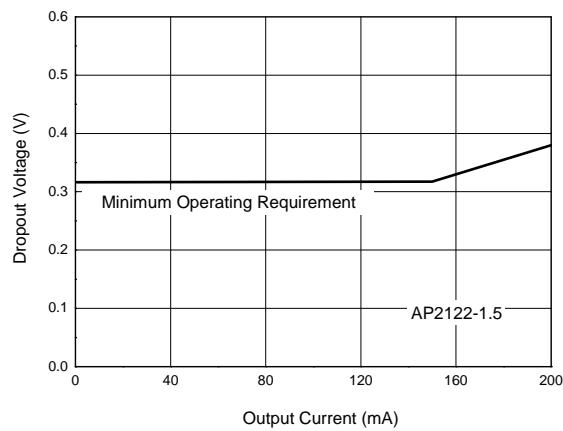
Output Voltage vs. Input Voltage



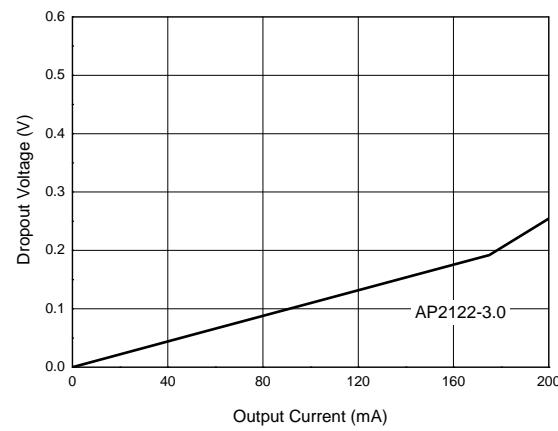
Output Voltage vs. Input Voltage



Dropout Voltage vs. Output Current

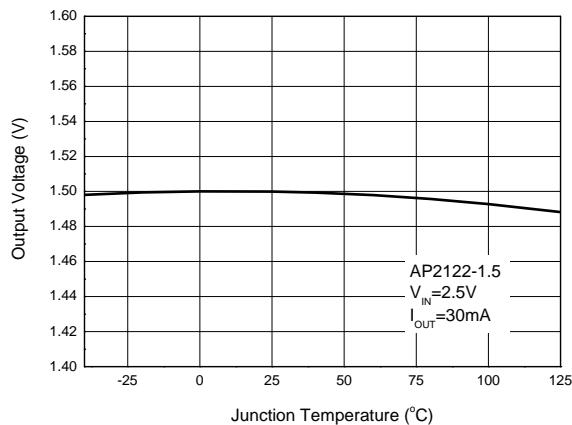


Dropout Voltage vs. Output Current

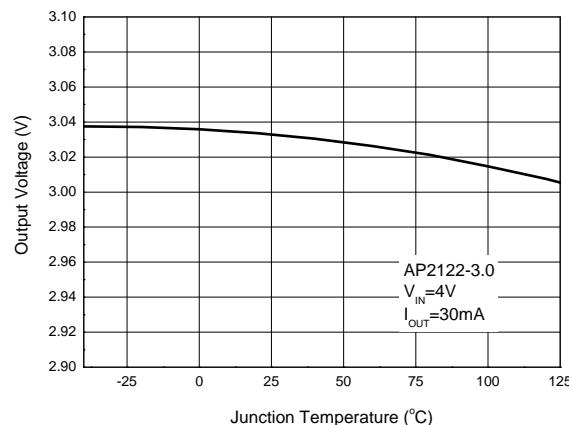


Performance Characteristics (Cont.)

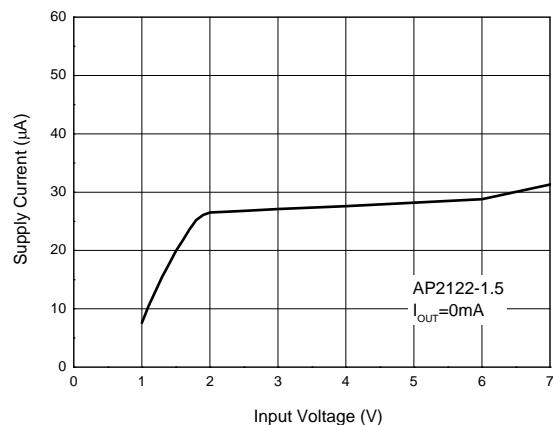
Output Voltage vs. Junction Temperature



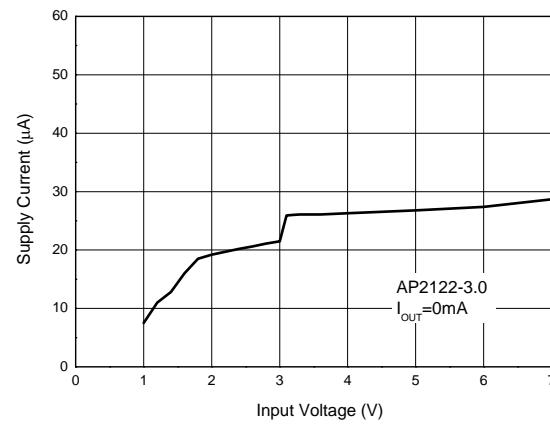
Output Voltage vs. Junction Temperature



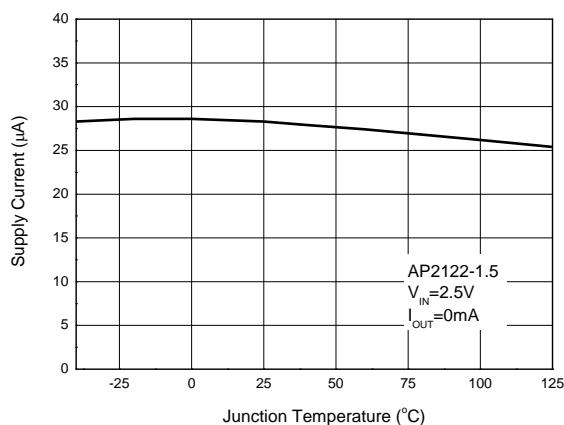
Supply Current vs. Input Voltage



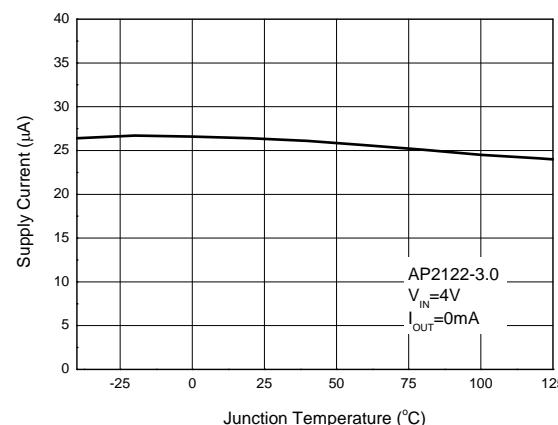
Supply Current vs. Input Voltage



Supply Current vs. Junction Temperature



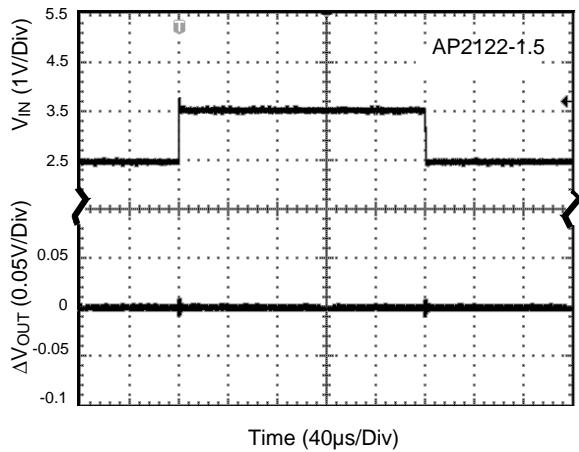
Supply Current vs. Junction Temperature



Performance Characteristics (Cont.)

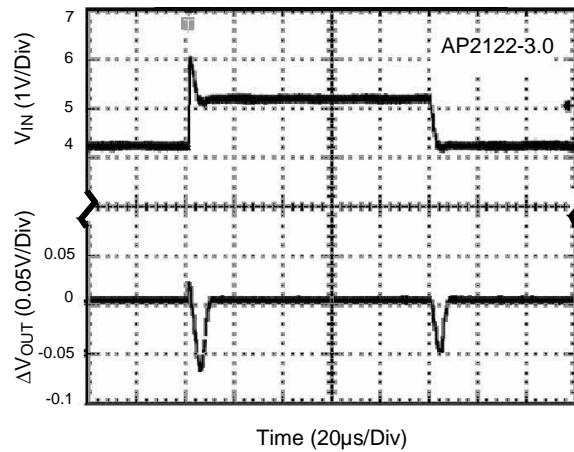
Line Transient

(Conditions: $I_{OUT}=30mA$, $C_{IN}=1\mu F$, $C_{OUT}=1\mu F$)



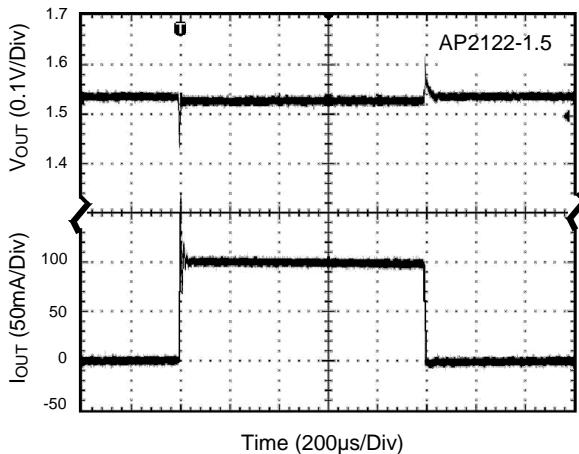
Line Transient

(Conditions: $I_{OUT}=30mA$, $C_{IN}=1\mu F$, $C_{OUT}=1\mu F$)



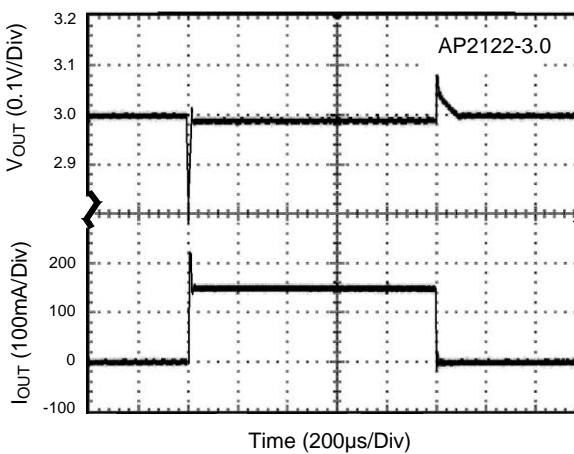
Load Transient

(Conditions: $V_{IN}=2.5V$, $C_{IN}=1\mu F$, $C_{OUT}=1\mu F$)

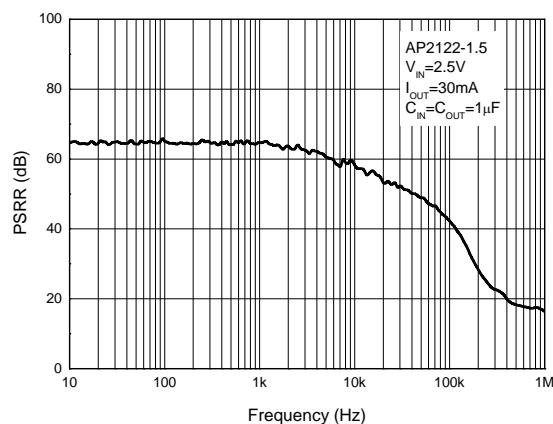


Load Transient

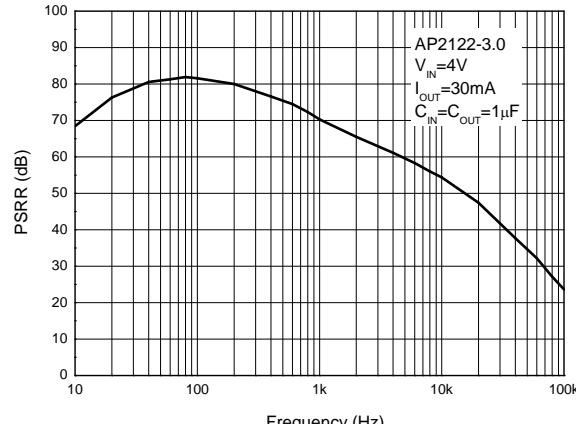
(Conditions: $V_{IN}=4V$, $C_{IN}=1\mu F$, $C_{OUT}=1\mu F$)



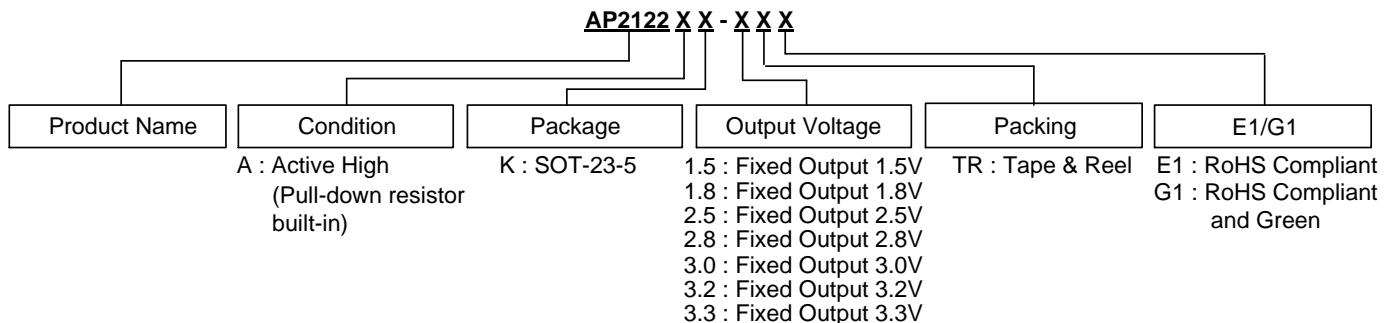
PSRR vs. Frequency



PSRR vs. Frequency



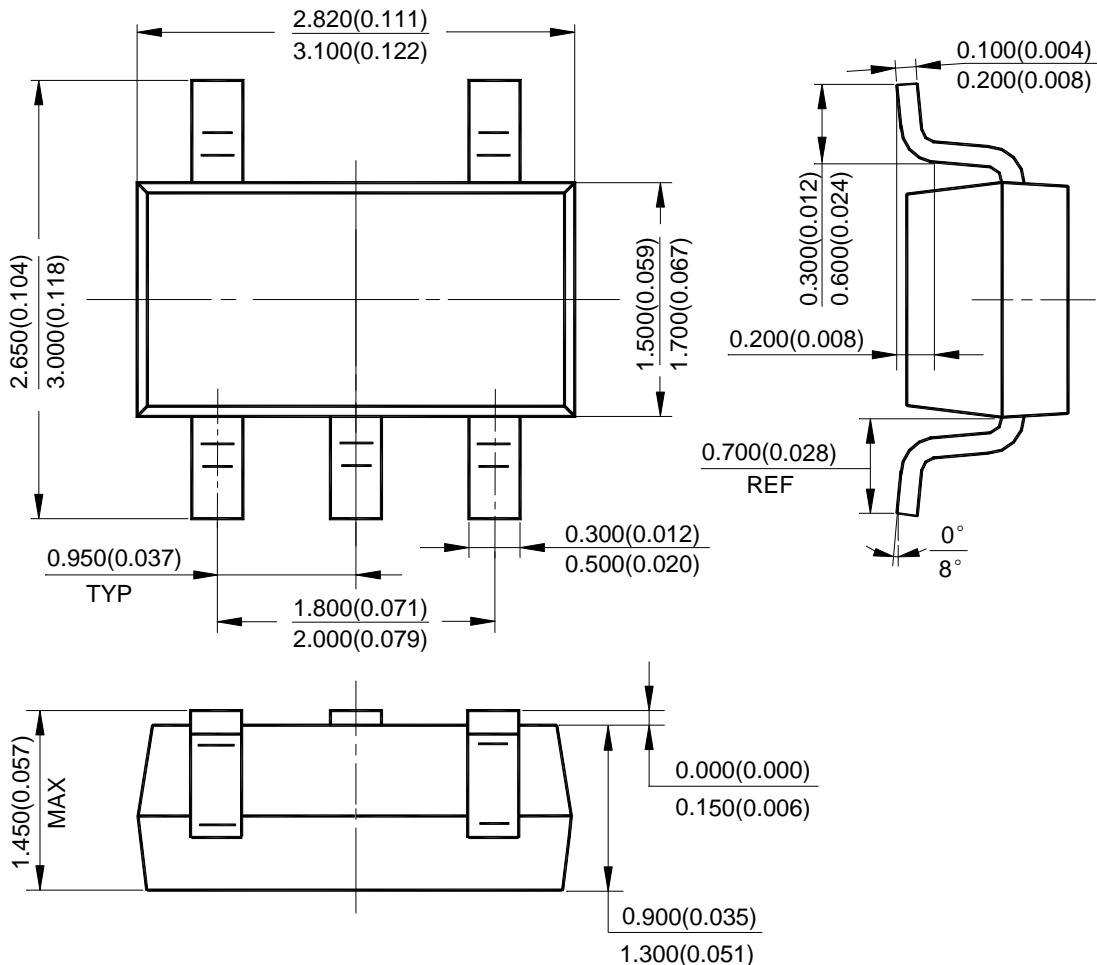
Ordering Information



Package	Temperature Range	Condition	Part Number		Marking ID		Packing
			RoHS Compliant	RoHS Compliant and Green	RoHS Compliant	RoHS Compliant and Green	
SOT-23-5	-40 to +85°C	Active High (Pull-down resistor built-in)	AP2122AK-1.5TRE1	AP2122AK-1.5TRG1	E2Z	G2Z	Tape & Reel
		Active High (Pull-down resistor built-in)	AP2122AK-1.8TRE1	AP2122AK-1.8TRG1	E2U	G2U	Tape & Reel
		Active High (Pull-down resistor built-in)	AP2122AK-2.5TRE1	AP2122AK-2.5TRG1	E2V	G2V	Tape & Reel
		Active High (Pull-down resistor built-in)	AP2122AK-2.8TRE1	AP2122AK-2.8TRG1	E2W	G2W	Tape & Reel
		Active High (Pull-down resistor built-in)	AP2122AK-3.0TRE1	AP2122AK-3.0TRG1	E2X	G2X	Tape & Reel
		Active High (Pull-down resistor built-in)	AP2122AK-3.2TRE1	AP2122AK-3.2TRG1	E3Y	G3Y	Tape & Reel
		Active High (Pull-down resistor built-in)	AP2122AK-3.3TRE1	AP2122AK-3.3TRG1	E2Y	G2Y	Tape & Reel

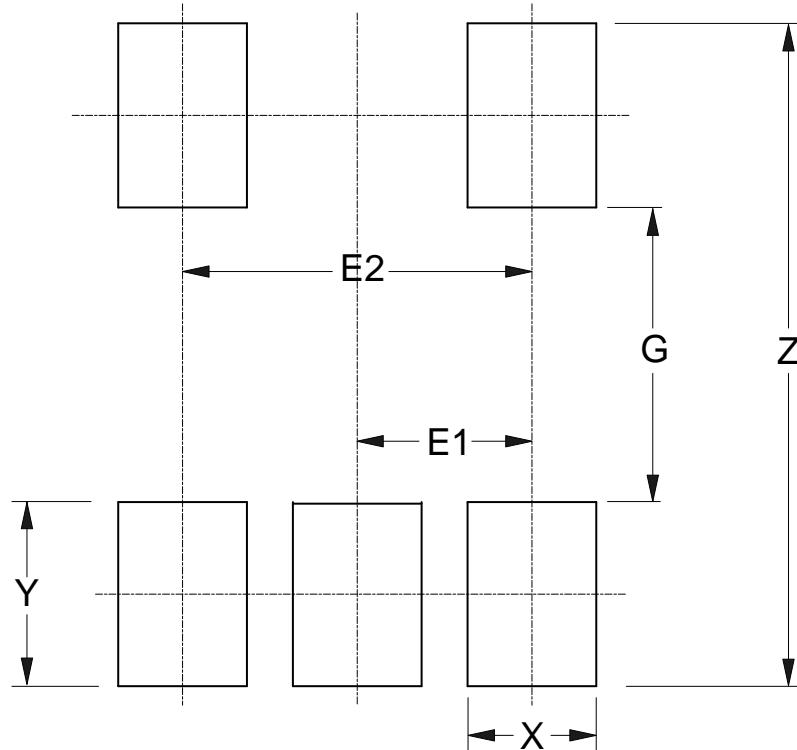
Package Outline Dimensions (All dimensions in mm(inch).)

(1) Package Type: SOT-23-5



Suggested Pad Layout

(1) Package Type: SOT-23-5



Dimensions	Z (mm)/(inch)	G (mm)/(inch)	X (mm)/(inch)	Y (mm)/(inch)	E1 (mm)/(inch)	E2 (mm)/(inch)
Value	3.600/0.142	1.600/0.063	0.700/0.028	1.000/0.039	0.950/0.037	1.900/0.075

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