XC6202 Series

(High Voltage) Positive Voltage Regulators

◆**CMOS Low Power Consumption**
◆**Operational Voltage Range : up to 20V**
◆**Dropout Voltage : 200mV @ 30mA,**
670mV @ 100mA
◆**Maximum Output Current : more than 150mA**
◆**Highly Accurate : ±2%**
◆**Output Voltage Range : 1.8V ~ 18.0V**
◆**Current Limiter Circuit Built-In**
◆**SOT-23 / SOT-89 / TO-92 / SOT-223 / USP-6B Package**
◆**Low ESR Capacitor can be used**

■Applications

●Battery Powered Equipment
●Reference Voltage Sources
●Cameras, Video Cameras
●Palmtops

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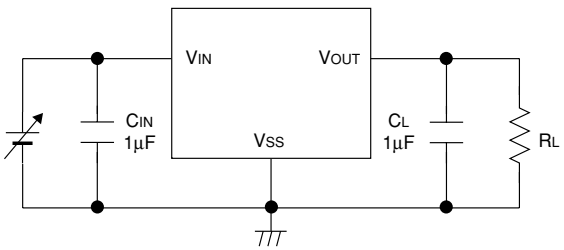
■General Description

The XC6202 series are highly precise, low power consumption, high voltage, positive voltage regulators manufactured using CMOS and laser trimming technologies. The XC6202 consists of a current limiter circuit, a driver transistor, a precision reference voltage and an error correction circuit.
Output voltage is selectable in 0.1V steps from 1.8V ~ 18V.
The series is also compatible with low ESR ceramic capacitors which give added output stability.
Since the current limiter circuit is built-in, the IC is protected against overshoot currents at such times of output shorts etc.
SOT-23(150mW), SOT-89(500mW), TO-92(300mW), SOT-223 (1200mW) and USP-6B (100mW) packages are available.

■Features

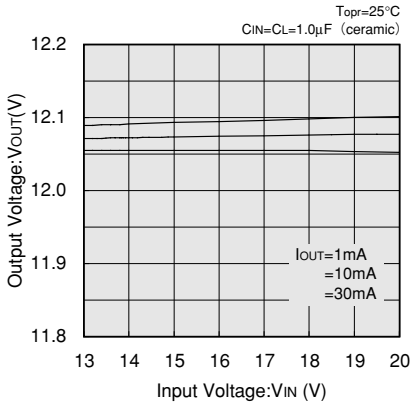
Maximum Output Current : 150mA
Dropout Voltage : 200mV @ 30mA
Operational Voltage Range : up to 20V
Output Voltage Range : 1.8V ~ 18V (selectable in 0.1V steps)
Highly Accurate : ±2%
Low Power Consumption : TYP 10 μA (VOUT=3.3V)
Operational Temperature Range
: -40°C ~ 85°C
Line Regulation : TYP 0.01% / V
Ultra Small Packages : SOT-23 (150mW), SOT-89 (500mW),
TO-92 (300mW),
SOT-223 (1200mW),
USP-6B (100mW)
Low ESR Capacitor Compatible
: ceramic capacitor

■Typical Application Circuit

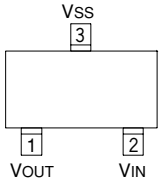


■Typical Performance Characteristic

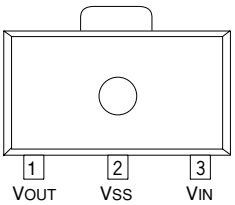
XC6202PC02(12V)



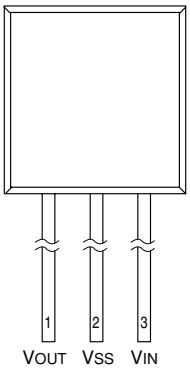
■Pin Configuration



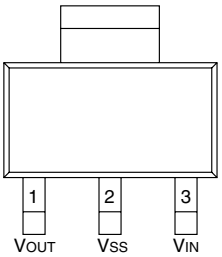
SOT-23
(TOP VIEW)



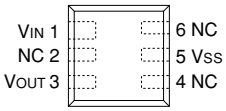
SOT-89
(TOP VIEW)



TO-92
(TOP VIEW)



SOT-223
(TOP VIEW)



USP-6B
(TOP VIEW)

■Pin Assignment

PIN NUMBER			PIN NAME	FUNCTION
SOT-23	SOT-89/TO-92/SOT-223	USP-6B		
1	1	3	VOUT	Output
3	2	5	VSS	Ground
2	3	1	VIN	Power Input
—	—	2,4	NC	No connection
—	—	6	NC	No connection

■Product Classification

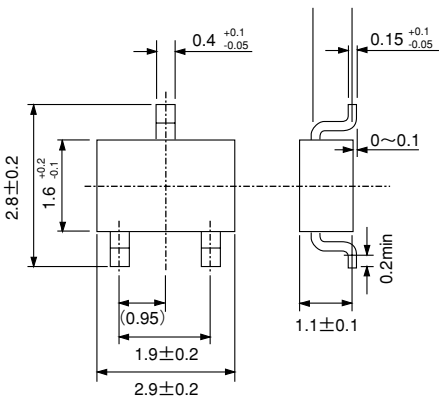
●Ordering Information

XC6202P①②③④⑤

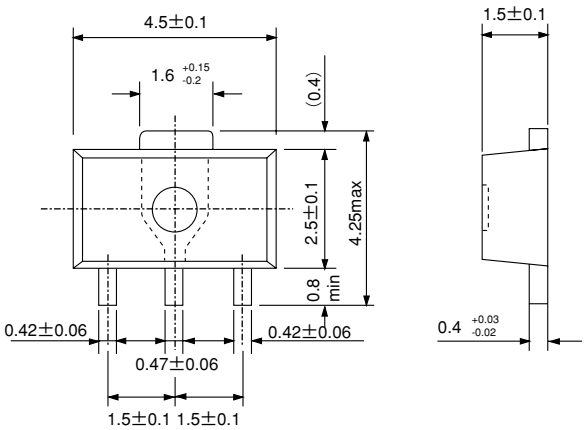
DESIGNATOR	SYMBOL	DESCRIPTION
①②	18 ～ J0	Output Voltage For the voltage above 10V, see the example 10=A, 11=B, 12=C, 13=D, 14=E, 15=F, 16=G, 17=H, 18=J e.g. V_{OUT}= 3.0V → ①:3, ②:0 V_{OUT}= 12V → ①:C, ②:0 V_{OUT}= 15V → ①:F, ②:0
③	2	Accuracy：±2%
④	M	Package：SOT-23
	P	SOT-89
	T	TO-92
	F	SOT-223
	D	USP-6B
⑤	R	Embossed Tape : Standard Feed
	L	Embossed Tape : Reverse Feed
	H	Paper Tape
	B	Bag

■Packaging Information

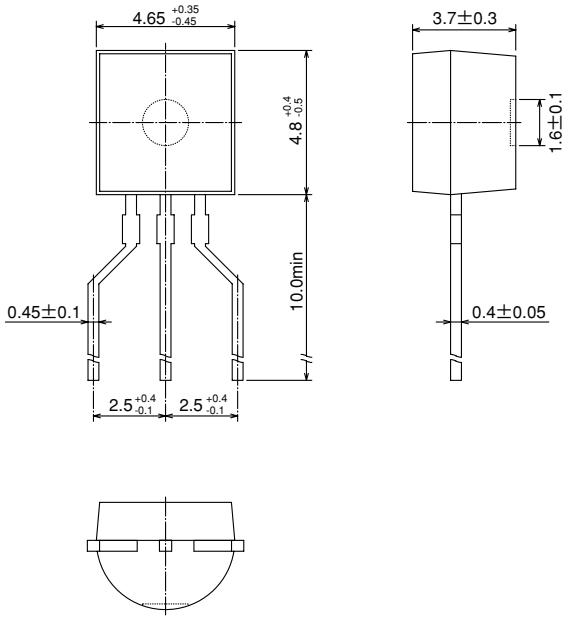
●SOT-23



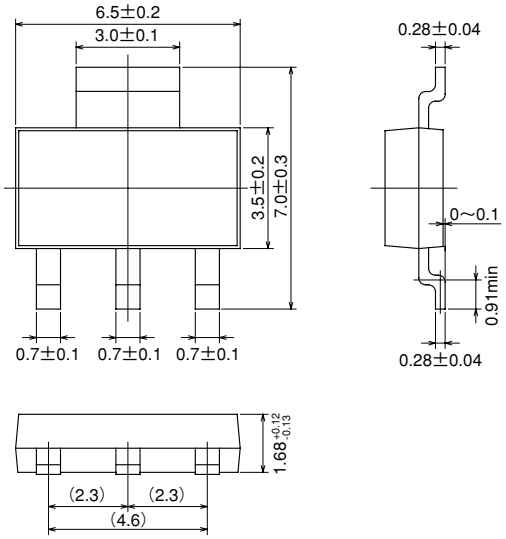
●SOT-89


4.5±0.1
1.6 +0.15 -0.2
(0.4)
2.5±0.1
4.25max
0.8 min
0.42±0.06
0.42±0.06
0.47±0.06
1.5±0.1 1.5±0.1
1.5±0.1
0.4 +0.03 -0.02

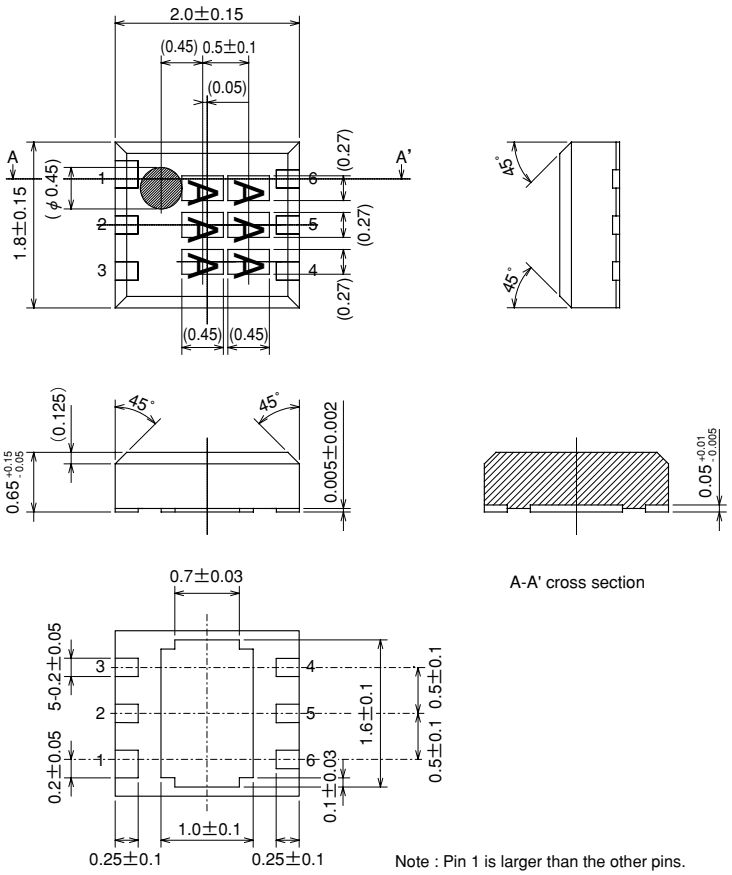
●TO-92


4.65 +0.35 -0.45
4.8 +0.4 -0.5
10.0min
0.45±0.1
2.5 +0.4 -0.1
2.5 +0.4 -0.1
3.7±0.3
1.6±0.1
0.4±0.05

●SOT-223



●USP-6B

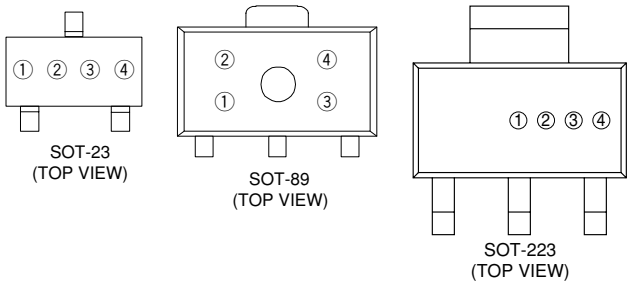


A-A' cross section

Note : Pin 1 is larger than the other pins.

■Marking

●SOT-23, SOT-89, SOT-223



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① Represents the product name

DESIGNATOR	PRODUCT NAME
2	XC6202P＊＊＊＊＊

② Represents the Output Voltage Range

DESIGNATOR	VOLTAGE (V)	PRODUCT NAME
4	0.1～3.0	XC6202P＊＊＊＊＊
5	3.1～6.0	
6	6.1～9.0	
7	9.1～12.0	
8	12.1～15.0	
9	15.1～18.0	

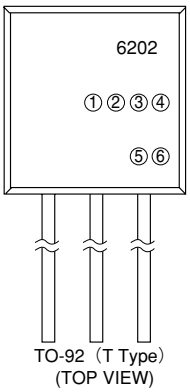
③ Represents the integer of the Output Voltage

DESIGNATOR	VOLTAGE (V)						DESIGNATOR	VOLTAGE					
0	—	3.1	6.1	9.1	12.1	15.1	F	—	4.6	7.6	10.6	13.6	16.6
1	—	3.2	6.2	9.2	12.2	15.2	H	—	4.7	7.7	10.7	13.7	16.7
2	—	3.3	6.3	9.3	12.3	15.3	K	1.8	4.8	7.8	10.8	13.8	16.8
3	—	3.4	6.4	9.4	12.4	15.4	L	1.9	4.9	7.9	10.9	13.9	16.9
4	—	3.5	6.5	9.5	12.5	15.5	M	2.0	5.0	8.0	11.0	14.0	17.0
5	—	3.6	6.6	9.6	12.6	15.6	N	2.1	5.1	8.1	11.1	14.1	17.1
6	—	3.7	6.7	9.7	12.7	15.7	P	2.2	5.2	8.2	11.2	14.2	17.2
7	—	3.8	6.8	9.8	12.8	15.8	R	2.3	5.3	8.3	11.3	14.3	17.3
8	—	3.9	6.9	9.9	12.9	15.9	S	2.4	5.4	8.4	11.4	14.4	17.4
9	—	4.0	7.0	10.0	13.0	16.0	T	2.5	5.5	8.5	11.5	14.5	17.5
A	—	4.1	7.1	10.1	13.1	16.1	U	2.6	5.6	8.6	11.6	14.6	17.6
B	—	4.2	7.2	10.2	13.2	16.2	V	2.7	5.7	8.7	11.7	14.7	17.7
C	—	4.3	7.3	10.3	13.3	16.3	X	2.8	5.8	8.8	11.8	14.8	17.8
D	—	4.4	7.4	10.4	13.4	16.4	Y	2.9	5.9	8.9	11.9	14.9	17.9
E	—	4.5	7.5	10.5	13.5	16.5	Z	3.0	6.0	9.0	12.0	15.0	18.0

④ Denotes the production lot number

0 to 9, A to Z repeated(G.I.J.O.Q.W excepted)

●TO-92 (T Type)



TO-92（T Type）
(TOP VIEW)

① Represents the type of regulator

DESIGNATOR	PRODUCT NAME
P	XC6202P＊＊＊＊＊

② Represents the integer of the Output Voltage

DESIGNATOR	VOLTAGE（V）	PRODUCT NAME	DESIGNATOR	VOLTAGE（V）	PRODUCT NAME
1	1.X	XC6202P1＊＊＊＊	A	10.X	XC6202PA＊＊＊＊
2	2.X	XC6202P2＊＊＊＊	B	11.X	XC6202PB＊＊＊＊
3	3.X	XC6202P3＊＊＊＊	C	12.X	XC6202PC＊＊＊＊
4	4.X	XC6202P4＊＊＊＊	D	13.X	XC6202PD＊＊＊＊
5	5.X	XC6202P5＊＊＊＊	E	14.X	XC6202PE＊＊＊＊
6	6.X	XC6202P6＊＊＊＊	F	15.X	XC6202PF＊＊＊＊
7	7.X	XC6202P7＊＊＊＊	G	16.X	XC6202PG＊＊＊＊
8	8.X	XC6202P8＊＊＊＊	H	17.X	XC6202PH＊＊＊＊
9	9.X	XC6202P9＊＊＊＊	J	18.X	XC6202PJ＊＊＊＊

③ Represents the decimal number of Output Voltage

DESIGNATOR	VOLTAGE（V）	PRODUCT NAME
3	X.3	XC6202P＊3＊＊＊
0	X.0	XC6202P＊0＊＊＊

④ Represents the Detect Voltage Accuracy

DESIGNATOR	DETECT VOLTAGE ACCURACY	PRODUCT NAME
2	within ±2%	XC6202P＊＊2＊＊
1	within ±1%	XC6202P＊＊1＊＊

⑤ Represents a least significant digit of the produced year

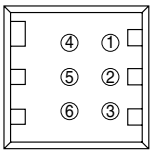
DESIGNATOR	PRODUCED YEAR
0	2000
1	2001

⑥ Denotes the production lot number

0 to 9, A to Z repeated(G.I.J.O.Q.W excepted)

Note: Character inversion is not used

●USP-6B



USP6B
(TOP VIEW)

①② Represents the product series

DESIGNATOR		PRODUCT NAME
①	②	
0	2	XC6202P＊＊＊D＊

③ Represents the type of regulator

DESIGNATOR	PRODUCT NAME
P	XC6202P＊＊＊D＊

④ Represents the integer of the Output Voltage

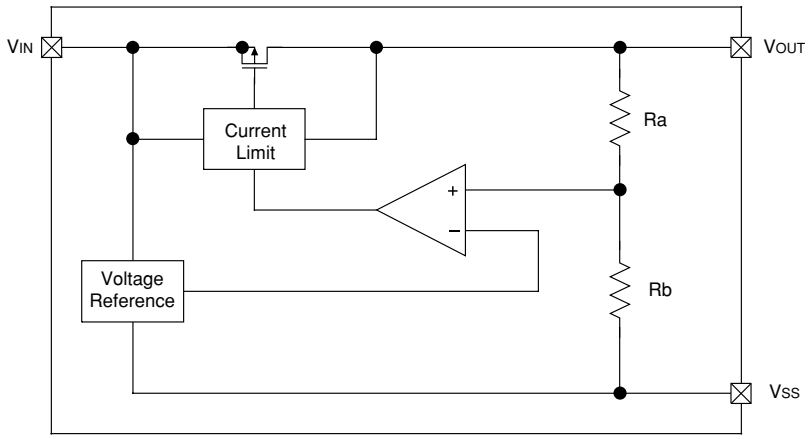
DESIGNATOR	VOLTAGE（V）	PRODUCT NAME	DESIGNATOR	VOLTAGE（V）	PRODUCT NAME
1	1.X	XC6202P1＊＊D＊	A	10.X	XC6202PA＊＊D＊
2	2.X	XC6202P2＊＊D＊	B	11.X	XC6202PB＊＊D＊
3	3.X	XC6202P3＊＊D＊	C	12.X	XC6202PC＊＊D＊
4	4.X	XC6202P4＊＊D＊	D	13.X	XC6202PD＊＊D＊
5	5.X	XC6202P5＊＊D＊	E	14.X	XC6202PE＊＊D＊
6	6.X	XC6202P6＊＊D＊	F	15.X	XC6202PF＊＊D＊
7	7.X	XC6202P7＊＊D＊	G	16.X	XC6202PG＊＊D＊
8	8.X	XC6202P8＊＊D＊	H	17.X	XC6202PH＊＊D＊
9	9.X	XC6202P9＊＊D＊	J	18.X	XC6202PJ＊＊D＊

⑤ Represents the decimal number of Output Voltage

DESIGNATOR	VOLTAGE（V）	PRODUCT NAME
3	X.3	XC6202P＊3＊D＊
0	X.0	XC6202P＊0＊D＊

⑥ Denotes the production lot number
0 to 9, A to Z repeated(G.I.J.O.Q.W excepted)
Note: Character inversion is not used

■Block Diagram



■Absolute Maximum Ratings

Ta=25°C

PARAMETER		SYMBOL	RATINGS	UNITS
Input Voltage		VIN	22	V
Output Current		IOUT	500	mA
Output Voltage		VOUT	VSS−0.3～VIN+0.3	V
Power Dissipation	SOT-23	Pd	150	mW
	SOT-89		500	
	TO-92		300	
	USP-6B		100	
	SOT-223		1,200 *note	
Operating Ambient Temperature		Topr	−40～+85	°C
Storage Temperature		Tstg	−55～+125	°C

Note: Circuits board mounting : Double-sided board

■Electrical Characteristics

XC6202P182 VOUT(T)=1.8V (Note 1) Topr=25°C

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS	CIRCUIT
Output Voltage	VOUT(E) (Note 2)	VIN=2.8V IOUT=30mA	1.764	1.800	1.836	V	2
Maximum Output Current	IOUTmax	VIN=2.8V VOUT≥VOUT(E)×0.9	60			mA	2
Load Regulation	ΔVOUT	VIN=2.8V 1mA≤IOUT≤100mA		10	80	mV	2
Dropout Voltage (Note 3)	Vdif1	IOUT=30mA		340	470	mV	2
	Vdif2	IOUT=100mA		1000	1500		
Supply Current	ISS	VIN=2.8V		10	24	μA	1
Line Regulation	ΔVOUT / ΔVIN・VOUT	IOUT=1mA 2.8V≤VIN≤20V		0.01	0.2	%/V	2
Input Voltage	VIN				20	V	—
Output Voltage Temperature Characteristics	ΔVOUT / ΔTopr・VOUT	IOUT=30mA -40°C≤Topr≤85°C		±100		ppm /°C	2
Short-circuit Current	Ilim	VIN=3.8V		40		mA	2

XC6202P332 VOUT(T)=3.3V (Note 1) Topr=25°C

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS	CIRCUIT
Output Voltage	VOUT(E) (Note 2)	VIN=4.3V IOUT=30mA	3.234	3.300	3.366	V	2
Maximum Output Current	IOUTmax	VIN=4.3V VOUT≥VOUT(E)×0.9	150			mA	2
Load Regulation	ΔVOUT	VIN=4.3V 1mA≤IOUT≤100mA		25	90	mV	2
Dropout Voltage (Note 3)	Vdif1	IOUT=30mA		200	280	mV	2
	Vdif2	IOUT=100mA		670	900		
Supply Current	ISS	VIN=4.3V		10	24	μA	1
Line Regulation	ΔVOUT / ΔVIN・VOUT	IOUT=1mA 4.3V≤VIN≤20V		0.01	0.2	%/V	2
Input Voltage	VIN				20	V	—
Output Voltage Temperature Characteristics	ΔVOUT / ΔTopr・VOUT	IOUT=30mA -40°C≤Topr≤85°C		±100		ppm /°C	2
Short-circuit Current	Ilim	VIN=5.3V		40		mA	2

XC6202P502 VOUT(T)=5.0V (Note 1)

Topr=25°C

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS	CIRCUIT
Output Voltage	VOUT(E) (Note 2)	VIN=6V IOUT=30mA	4.900	5.000	5.100	V	2
Maximum Output Current	IOUTmax	VIN=6V VOUT≥VOUT(E)×0.9	200			mA	2
Load Regulation	ΔVOUT	VIN=6V 1mA≤IOUT≤100mA		30	100	mV	2
Dropout Voltage (Note 3)	Vdif1	IOUT=30mA		130	190	mV	2
	Vdif2	IOUT=100mA		440	550		
Supply Current	ISS	VIN=6V		10	24	μA	1
Line Regulation	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$	IOUT=1mA 6V≤VIN≤20V		0.01	0.2	%/V	2
Input Voltage	VIN				20	V	—
Output Voltage Temperature Characteristics	$\frac{\Delta V_{OUT}}{\Delta Topr \cdot V_{OUT}}$	IOUT=30mA -40°C≤Topr≤85°C		±100		ppm/°C	2
Short-circuit Current	Ilim	VIN=7V		40		mA	2

XC6202PC02 VOUT(T)=12V (Note 1)

Topr=25°C

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS	CIRCUIT
Output Voltage	VOUT(E) (Note 2)	VIN=13V IOUT=30mA	11.760	12.000	12.240	V	2
Maximum Output Current	IOUTmax	VIN=13V VOUT≥VOUT(E)×0.9	200			mA	2
Load Regulation	ΔVOUT	VIN=13V 1mA≤IOUT≤100mA		60	230	mV	2
Dropout Voltage (Note 3)	Vdif1	IOUT=30mA		90	150	mV	2
	Vdif2	IOUT=100mA		290	380		
Supply Current	ISS	VIN=13V		12	28	μA	1
Line Regulation	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$	IOUT=1mA 13V≤VIN≤20V		0.01	0.2	%/V	2
Input Voltage	VIN				20	V	—
Output Voltage Temperature Characteristics	$\frac{\Delta V_{OUT}}{\Delta Topr \cdot V_{OUT}}$	IOUT=30mA -40°C≤Topr≤85°C		±100		ppm/°C	2
Short-circuit Current	Ilim	VIN=14V		40		mA	2

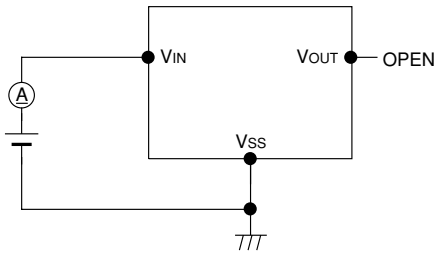
XC6202PJ02 $V_{OUT}(T)=18V$ (Note 1) Topr=25℃

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS	CIRCUIT
Output Voltage	$V_{OUT}(E)$ (Note 2)	V_{IN}=19V I_{OUT}=30mA	17.640	18.000	18.360	V	2
Maximum Output Current	$I_{OUT}max$	V_{IN}=19V $V_{OUT} \geq V_{OUT}(E) \times 0.9$	200			mA	2
Load Regulation	ΔV_{OUT}	V_{IN}=19V 1mA≤I_{OUT}≤100mA		120	380	mV	2
Dropout Voltage (Note 3)	Vdif1	I_{OUT}=30mA		80	150	mV	2
	Vdif2	I_{OUT}=100mA		280	380		
Supply Current	ISS	V_{IN}=19V		15	30	μA	1
Line Regulation	$\frac{\Delta V_{OUT}}{\Delta V_{IN} \cdot V_{OUT}}$	I_{OUT}=1mA 19V≤V_{IN}≤20V		0.01	0.2	%/V	2
Input Voltage	V_{IN}				20	V	—
Output Voltage Temperature Characteristics	$\frac{\Delta V_{OUT}}{\Delta Topr \cdot V_{OUT}}$	I_{OUT}=30mA -40°C≤Topr≤85°C		±100		ppm /°C	2
Short-circuit Current	Ilim	V_{IN}=20V		40		mA	2

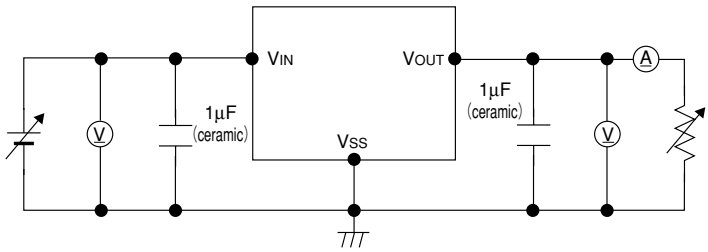
Note : 1. $V_{OUT}(T)$ = Specified Output Voltage.
2. $V_{OUT}(E)$ = Effective Output Voltage (i.e. the output voltage when "$V_{OUT}(T)$+1.0V" is provided at the V_{IN} pin while maintaining certain I_{OUT} value).
3. Vdif = V_{IN1} - V_{OUT1}
4. V_{OUT1} = A voltage equal to 98% of the output voltage when "$V_{OUT}(T)$+1.0V" is input.e
5. V_{IN1} = The input voltage when V_{OUT1} is output following a gradual decrease in the input voltage.

■Test Circuits

CIRCUIT 1



CIRCUIT 2

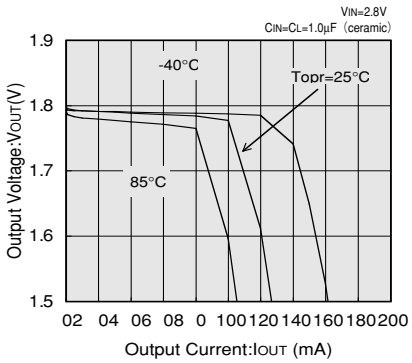


■Typical Performance Characteristics

●XC6202P182

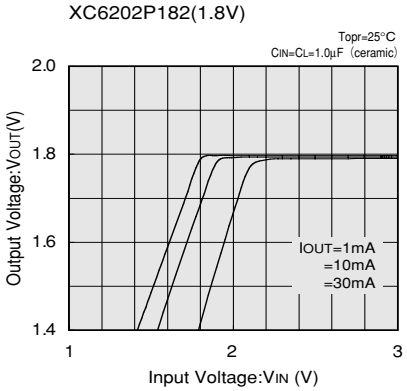
(1) OUTPUT VOLTAGE vs. OUTPUT CURRENT

XC6202P182(1.8V)

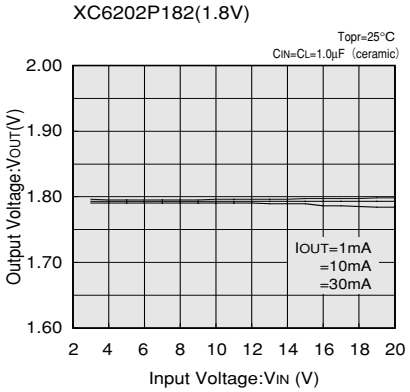


(2) OUTPUT VOLTAGE vs. INPUT VOLTAGE

XC6202P182(1.8V)

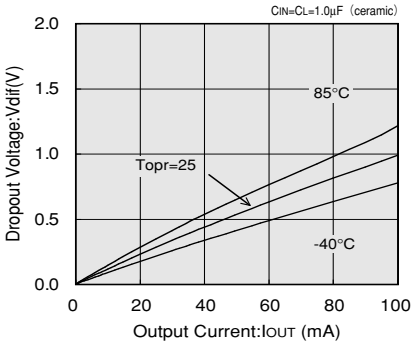


XC6202P182(1.8V)

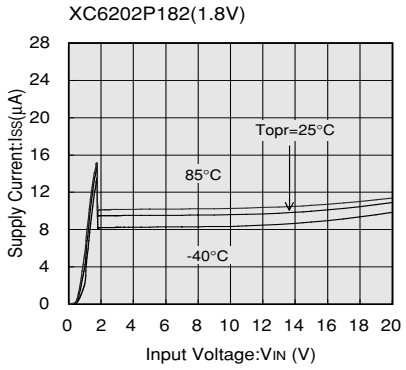


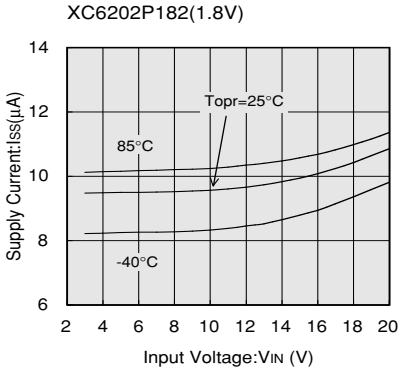
(3) DROPOUT VOLTAGE vs. OUTPUT CURRENT

XC6202P182(1.8V)

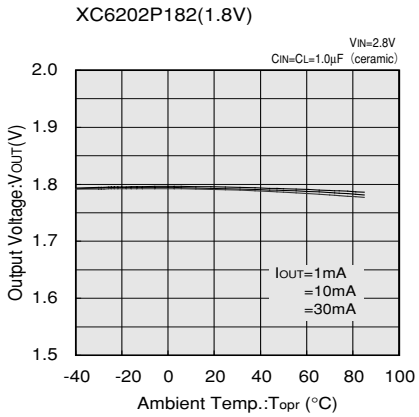


(4) SUPPLY CURRENT vs. INPUT VOLTAGE

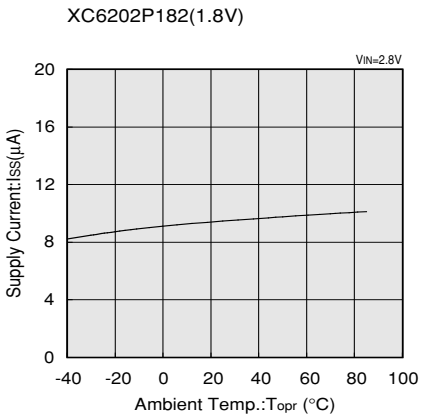




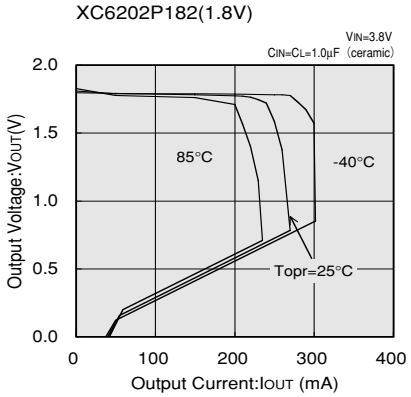
(5) OUTPUT VOLTAGE vs. AMBIENT TEMPERATURE



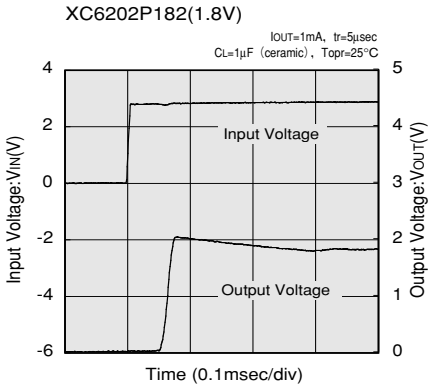
(6) SUPPLY CURRENT vs. AMBIENT TEMPERATURE

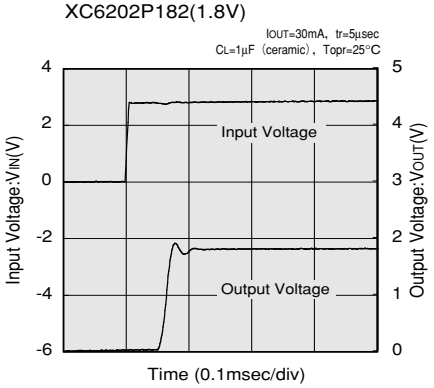


(7) CURRENT LIMITER CIRCUIT

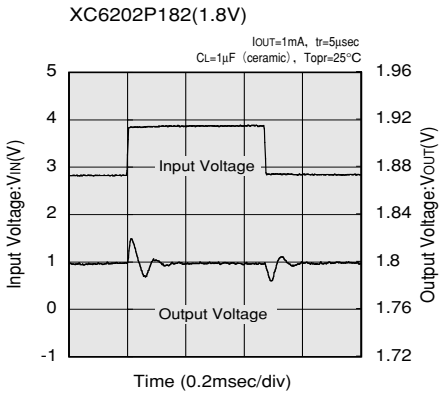


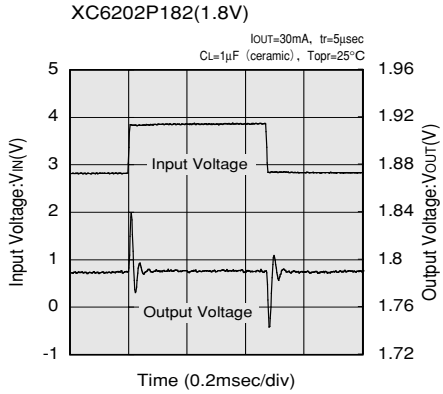
(8) INPUT TRANSIENT RESPONSE 1



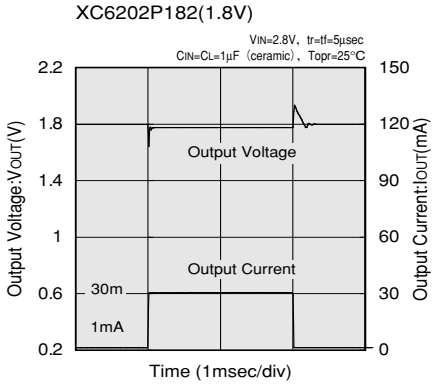


(9) INPUT TRANSIENT RESPONSE 2



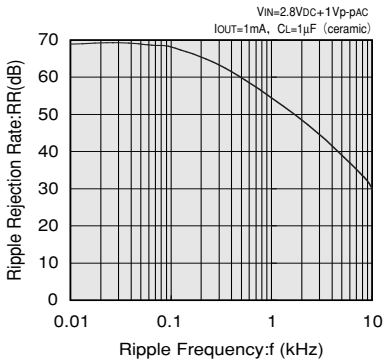


(10) LOAD TRANSIENT RESPONSE

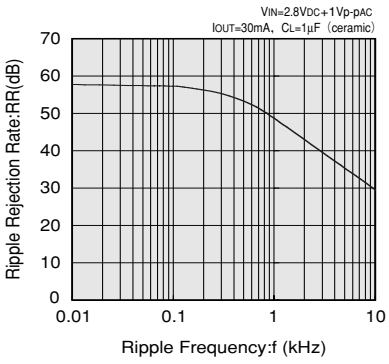


(11) RIPPLE REJECTION RATE

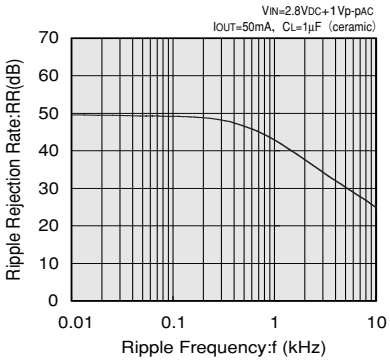
XC6202P182(1.8V)



XC6202P182(1.8V)



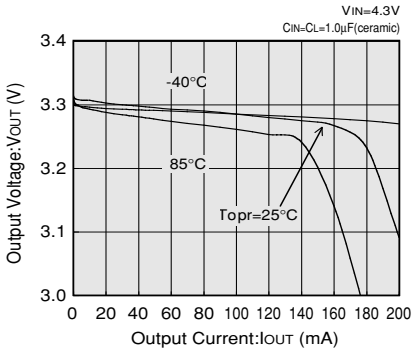
XC6202P182(1.8V)



●XC6202P332

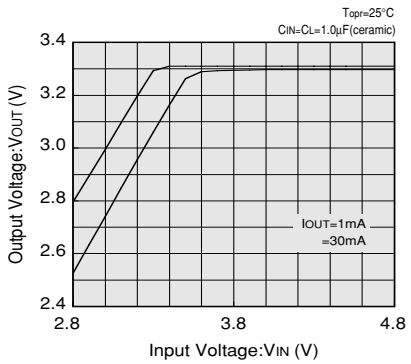
(1) OUTPUT VOLTAGE vs. OUTPUT CURRENT

XC6202P332(3.3V)

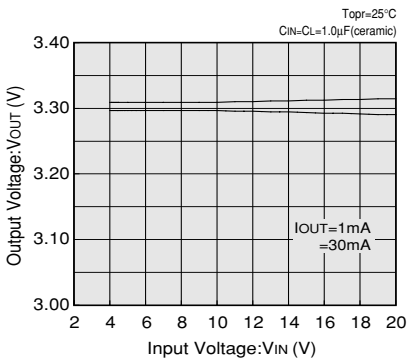


(2) OUTPUT VOLTAGE vs. INPUT VOLTAGE

XC6202P332(3.3V)

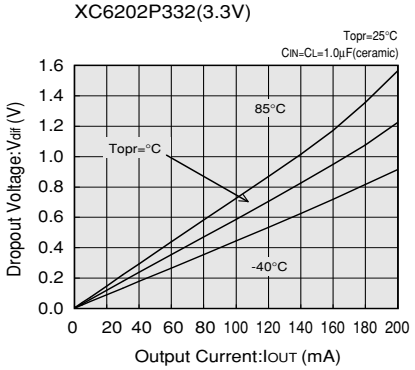


XC6202P332(3.3V)

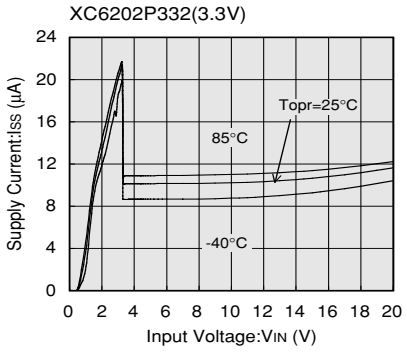


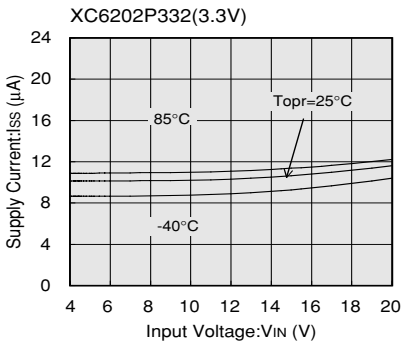
(3) DROPOUT VOLTAGE vs. OUTPUT CURRENT

XC6202P332(3.3V)

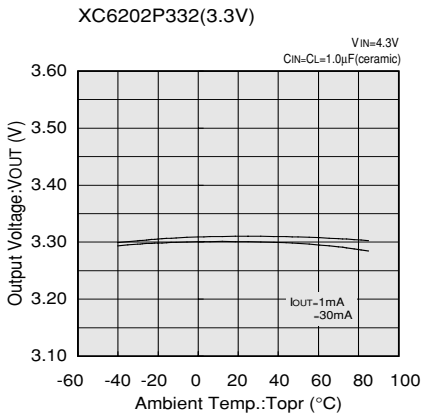


(4) SUPPLY CURRENT vs. INPUT VOLTAGE

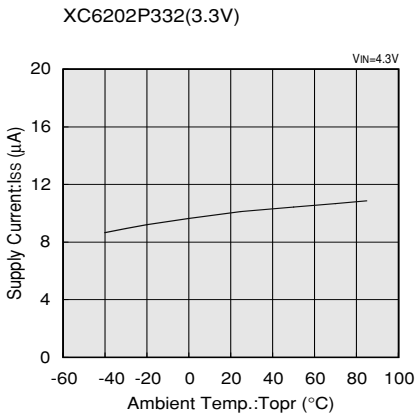




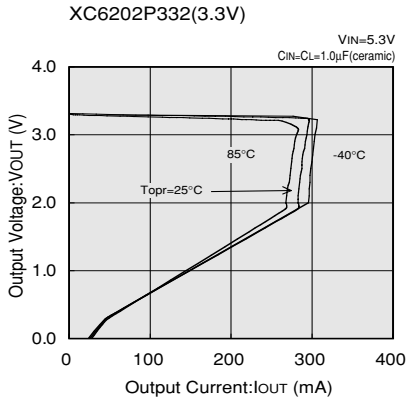
(5) OUTPUT VOLTAGE vs. AMBIENT TEMPERATURE



(6) SUPPLY CURRENT vs. AMBIENT TEMPERATURE

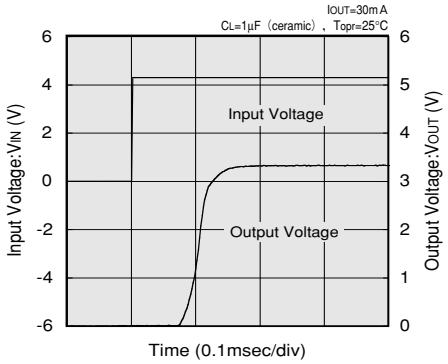


(7) CURRENT LIMITER CIRCUIT



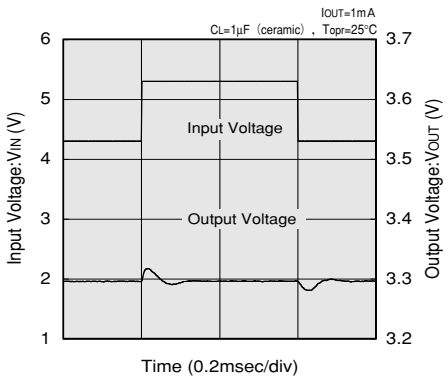
(8) INPUT TRANSIENT RESPONSE 1

XC6202P332(3.3V)

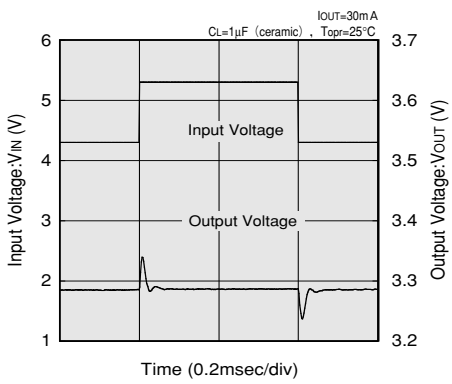


(9) INPUT TRANSIENT RESPONSE 2

XC6202P332(3.3V)

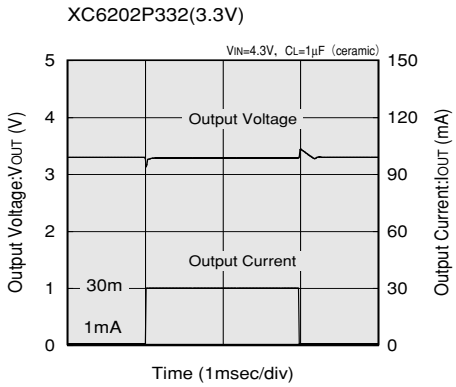


XC6202P332(3.3V)



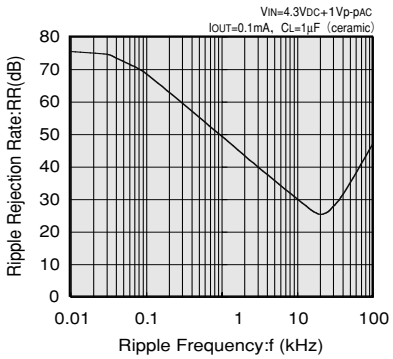
(10) LOAD TRANSIENT RESPONSE

XC6202P332(3.3V)

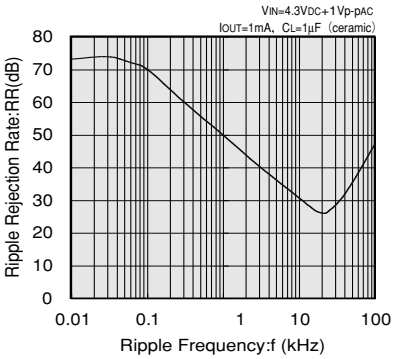


(11) RIPPLE REJECTION RATE

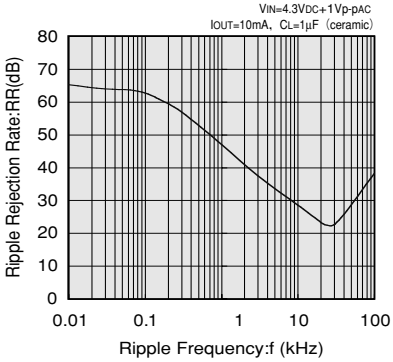
XC6202P332(3.3V)



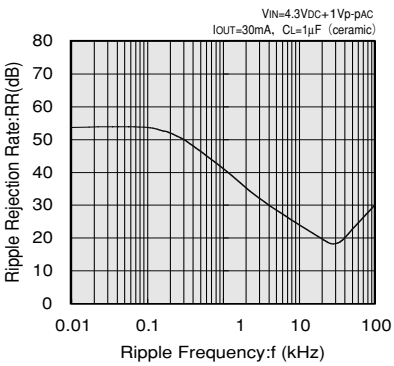
XC6202P332(3.3V)



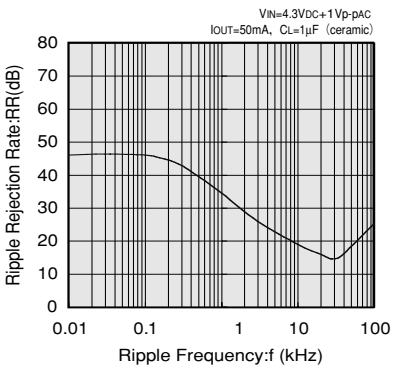
XC6202P332(3.3V)



XC6202P332(3.3V)

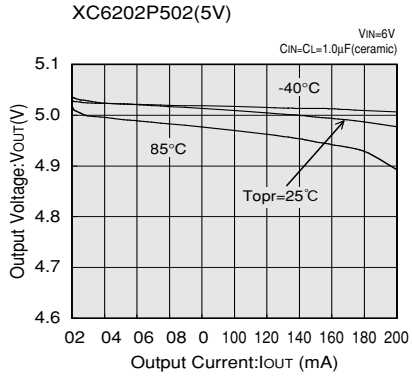


XC6202P332(3.3V)

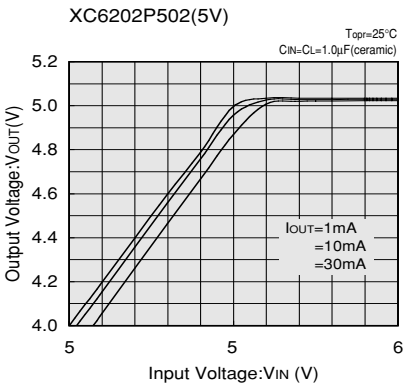


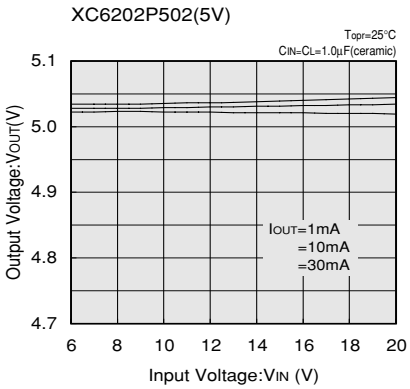
●XC6202P502

(1) OUTPUT VOLTAGE vs. OUTPUT CURRENT

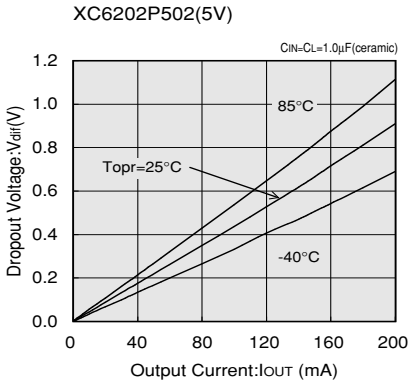


(2) OUTPUT VOLTAGE vs. INPUT VOLTAGE

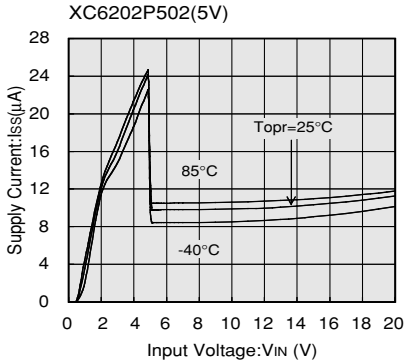


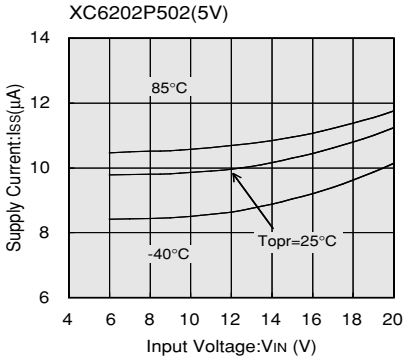


(3) DROPOUT VOLTAGE vs. OUTPUT CURRENT

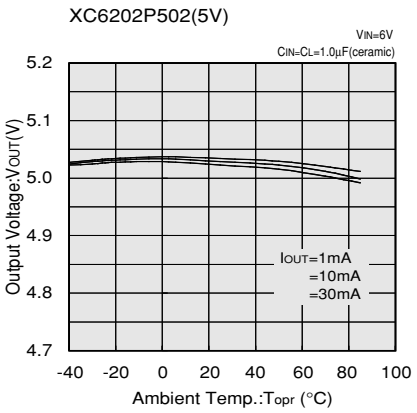


(4) SUPPLY CURRENT vs. INPUT VOLTAGE

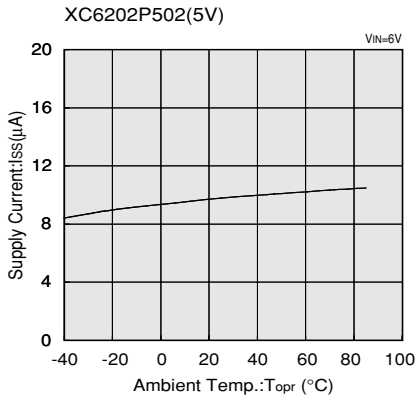




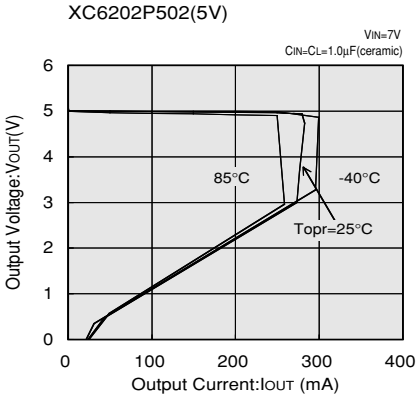
(5) OUTPUT VOLTAGE vs. AMBIENT TEMPERATURE



(6) SUPPLY CURRENT vs. AMBIENT TEMPERATURE

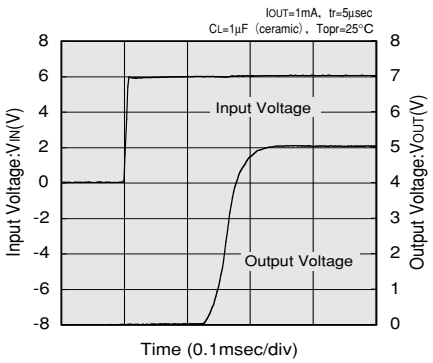


(7) CURRENT LIMITER CIRCUIT

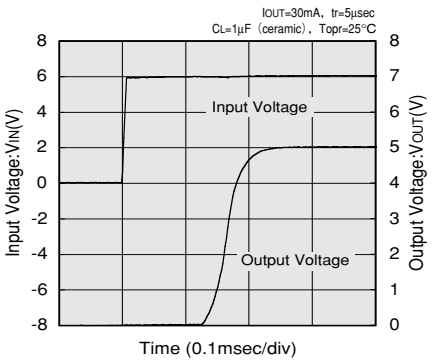


(8) INPUT TRANSIENT RESPONSE 1

XC6202P502(5V)

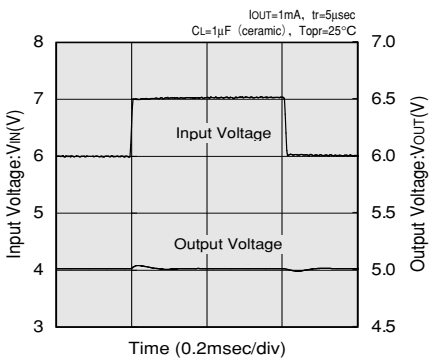


XC6202P502(5V)

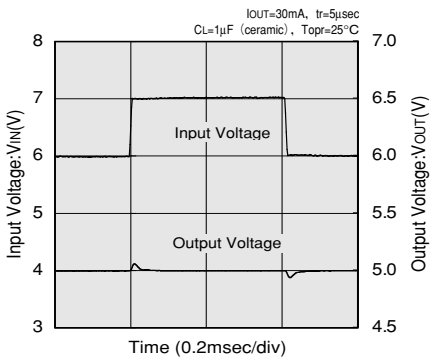


(9) INPUT TRANSIENT RESPONSE 2

XC6202P502(5V)

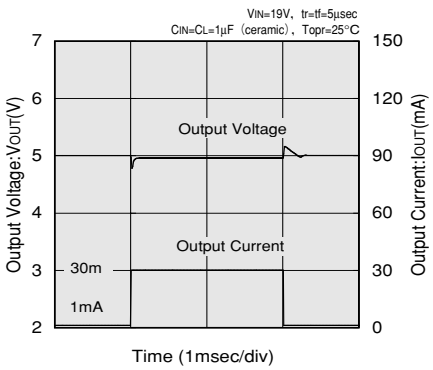


XC6202P502(5V)



(10) LOAD TRANSIENT RESPONSE

XC6202P502(5V)



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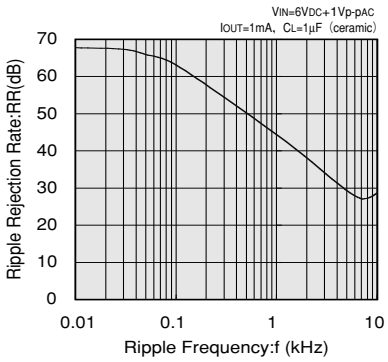
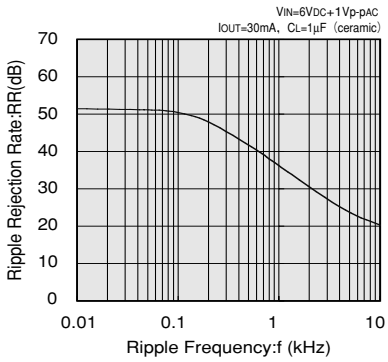
(11) RIPPLE REJECTION RATE

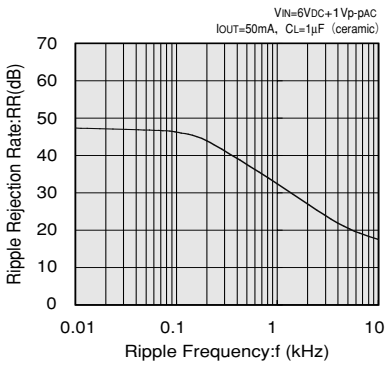
XC6202P502(5V)



XC6202P502(5V)



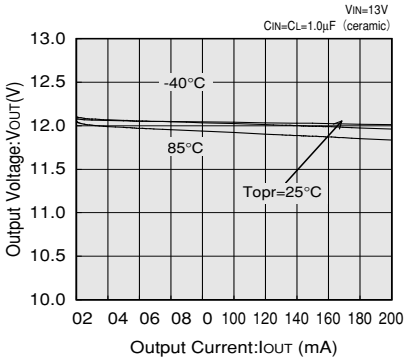
XC6202P502(5V)



●XC6202PC02

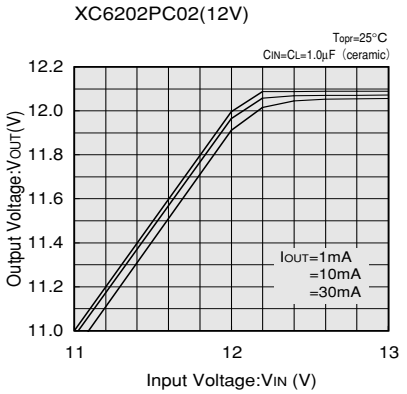
(1) OUTPUT VOLTAGE vs. OUTPUT CURRENT

XC6202PC02(12V)

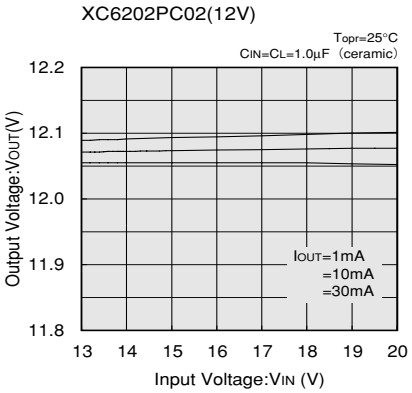


(2) OUTPUT VOLTAGE vs. INPUT VOLTAGE

XC6202PC02(12V)

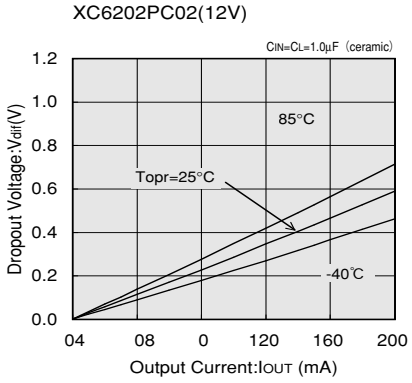


XC6202PC02(12V)

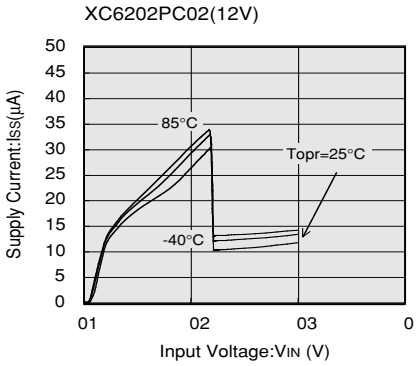


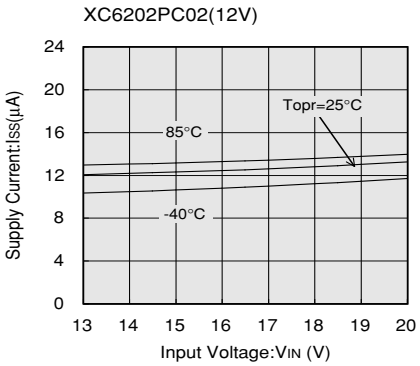
(3) DROPOUT VOLTAGE vs. OUTPUT CURRENT

XC6202PC02(12V)

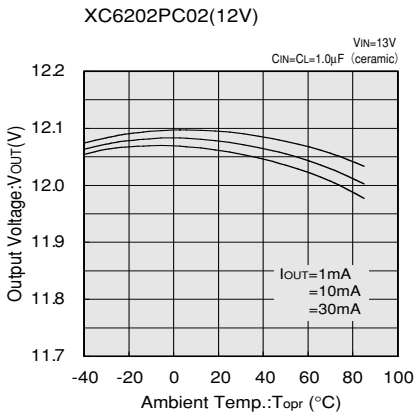


(4) SUPPLY CURRENT vs. INPUT VOLTAGE

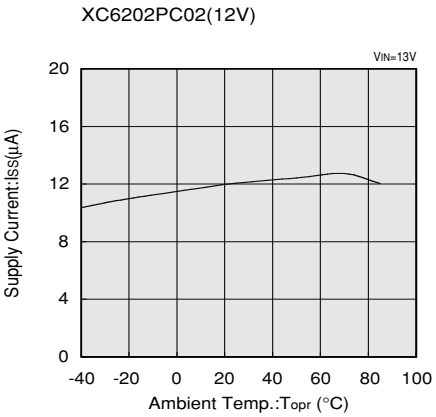




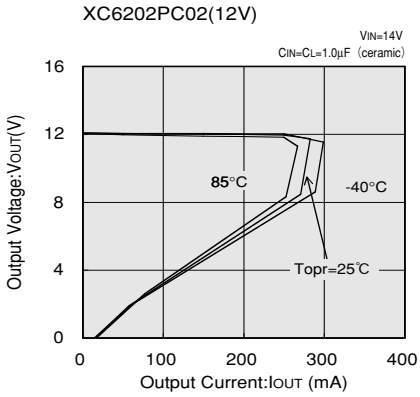
(5) OUTPUT VOLTAGE vs. AMBIENT TEMPERATURE



(6) SUPPLY CURRENT vs. AMBIENT TEMPERATURE

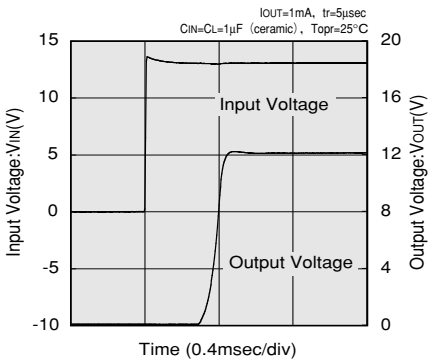


(7) CURRENT LIMITER CIRCUIT

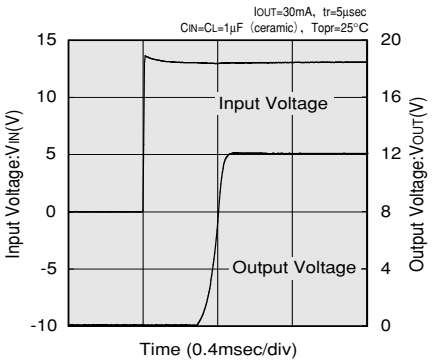


(8) INPUT TRANSIENT RESPONSE 1

XC6202PC02(12V)

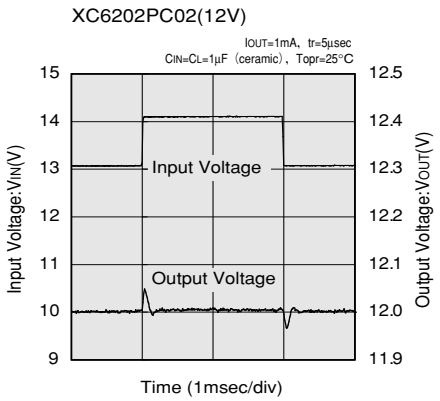


XC6202PC02(12V)

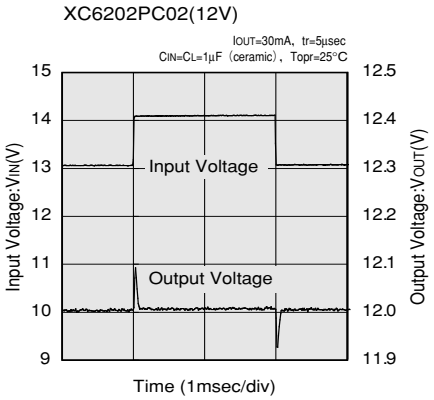


(9) INPUT TRANSIENT RESPONSE 2

XC6202PC02(12V)

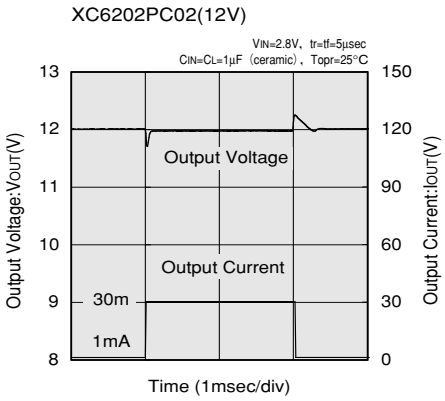


XC6202PC02(12V)



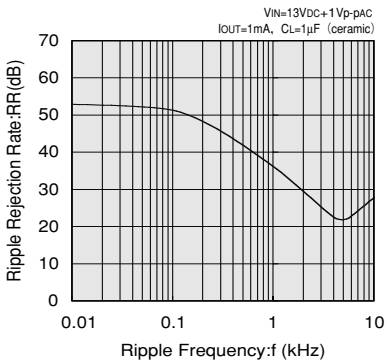
(10) LOAD TRANSIENT RESPONSE

XC6202PC02(12V)



(11) RIPPLE REJECTION RATE

XC6202PC02(12V)



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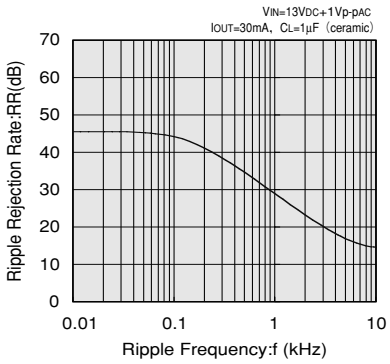
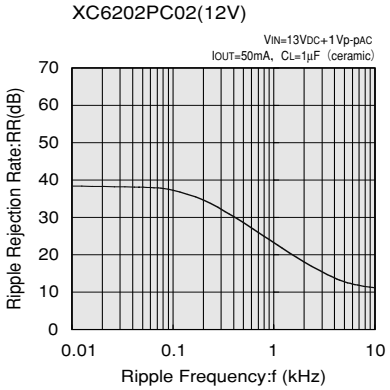
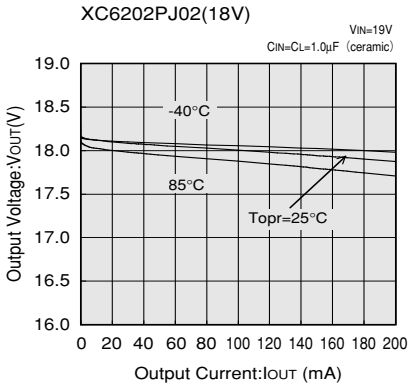


XC6202PC02(12V)

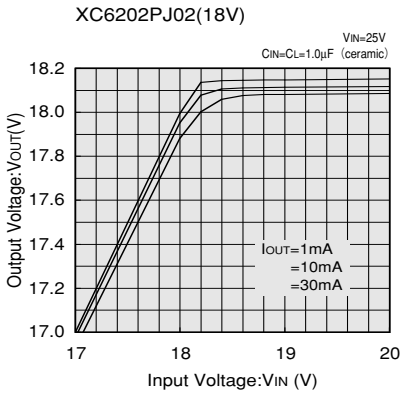


●XC6202PJ02

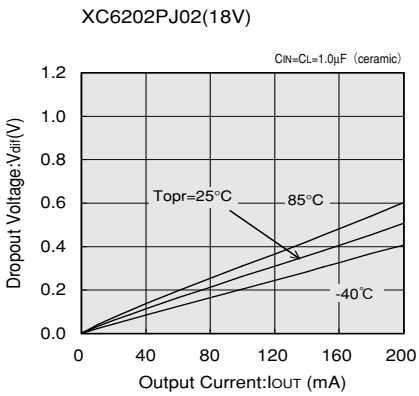
(1) OUTPUT VOLTAGE vs. OUTPUT CURRENT



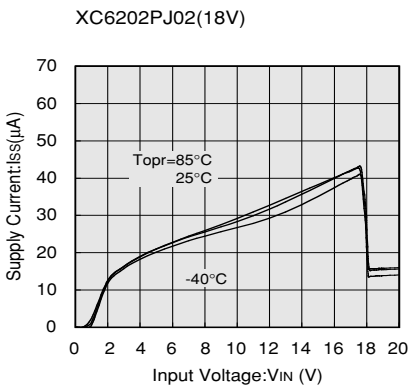
(2) OUTPUT VOLTAGE vs. INPUT VOLTAGE



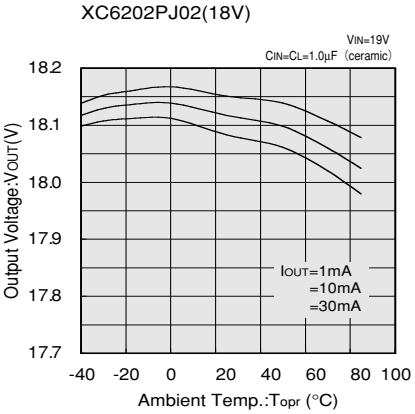
(3) DROPOUT VOLTAGE vs. OUTPUT CURRENT



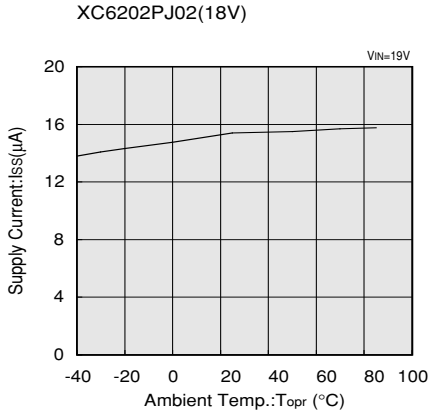
(4) SUPPLY CURRENT vs. INPUT VOLTAGE



(5) OUTPUT VOLTAGE vs. AMBIENT TEMPERATURE

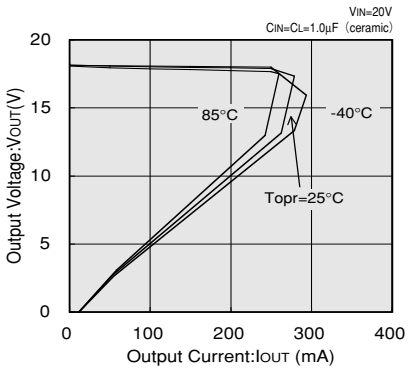


(6) SUPPLY CURRENT vs. AMBIENT TEMPERATURE



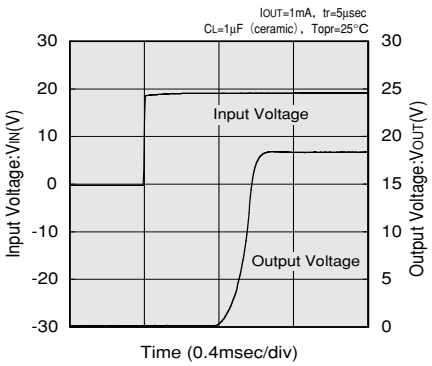
(7) CURRENT LIMITER CIRCUIT

XC6202PJ02(18V)

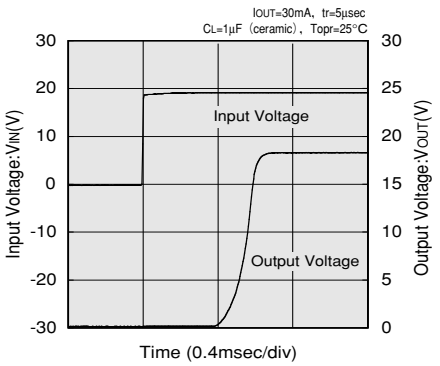


(8) INPUT TRANSIENT RESPONSE 1

XC6202PJ02(18V)

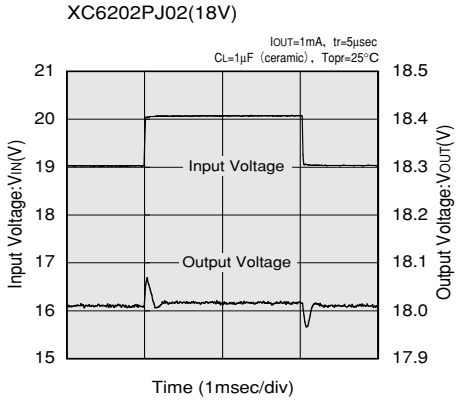


XC6202PJ02(18V)



(9) INPUT TRANSIENT RESPONSE 2

XC6202PJ02(18V)



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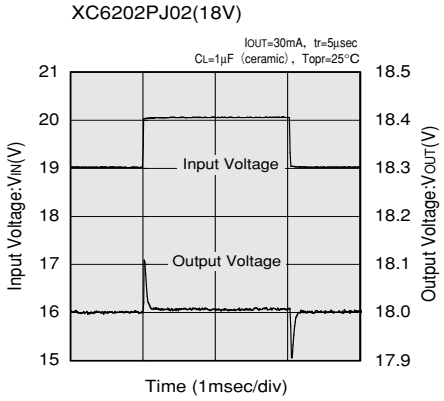
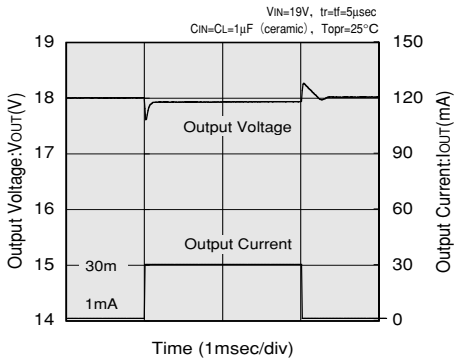


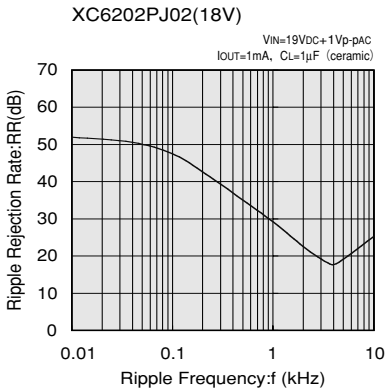
(10) LOAD TRANSIENT RESPONSE

XC6202PJ02(18V)



(11) RIPPLE REJECTION RATE

XC6202PJ02(18V)



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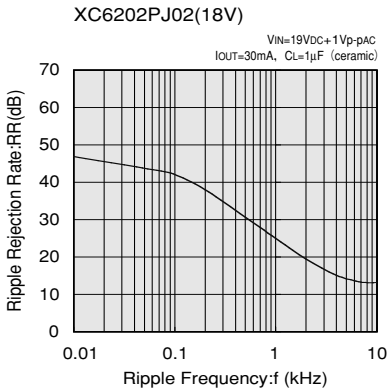

XC6202PJ02(18V)