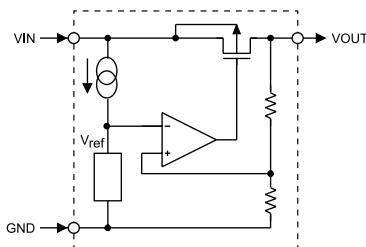


High Voltage LDO Regulator **multicomp** PRO



**RoHS
Compliant**

Features

- Low power consumption
- Low voltage drop
- Low temperature coefficient
- High input voltage (up to 24V)

Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating
Supply Voltage		-0.3 to 28V
Power Consumption	P _c	200mW
Junction Temperature	T _J	125°C
Operating Temperature	T _{op}	0°C to 70°C
Storage Temperature range	T _{STG}	-50°C to 125°C

Electrical Characteristic Ta = 25°C

HT7130, +3.0V output type

Parameter	Symbol	Test conditions		Min	Typ	Max	Unit
		V _{IN}	Conditions				
Output Voltage Tolerance	V _{OUT}	5V	I _{OUT} =10mA	2.85	3	3.15	V
Input Voltage	V _{IN}	--					
Load Regulation	△V _{OUT}	5V	1mA≤ I _{OUT} ≤ 20mA	60	100	100	mV
Voltage Drop	V _{DIF}	--	I _{OUT} =1mA				
Output Current	I _{OUT}	5V		20	30	30	mA
Current Consumption	I _{SS}		No load				
Line Regulation	△V _{OUT} △V _{IN} X V _{OUT}	--	4V ≤ V _{IN} ≤ 24V I _{OUT} =1mA	0.2	0.2	0.2	%/V
Temperature Coefficient	△V _{OUT} △T _a	5V	I _{OUT} =10mA 0°C<Ta<70°C				

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HT7133, +3.3V output type

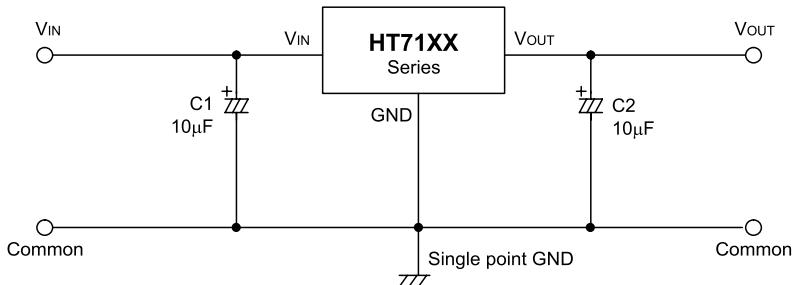
Parameter	Symbol	Test conditons		Min	Typ	Max	Unit
		V _{IN}	Conditions				
Output Voltage Tolerance	V _{OUT}	5.5V	I _{OUT} =10mA	3.135	3.3	3.465	V
Input Voltage	V _{IN}	--				24	
Load Regulation	ΔV _{OUT}	5.5V	1mA≤ I _{OUT} ≤ 30mA		60	100	mV
Voltage Drop	V _{DIF}	--	I _{OUT} =1mA		100		
Output Current	I _{OUT}	5.5V		20	30		mA
Current Consumption	I _{SS}		No load		4	6	uA
Line Regulation	ΔV _{OUT} ΔV _{IN} X V _{OUT}	--	4.5V ≤ V _{IN} ≤ 24V I _{OUT} =1mA		0.2		%/V
Temperature Coefficient	ΔV _{OUT} ΔT _a	5.5V	I _{OUT} =10mA 0°C<Ta<70°C		±0.5		mV/°C

HT7150, +5.0V output type

Parameter	Symbol	Test conditons		Min	Typ	Max	Unit
		V _{IN}	Conditions				
Output Voltage Tolerance	V _{OUT}	7V	I _{OUT} =10mA	4.75	5	5.25	V
Input Voltage	V _{IN}	--				24	
Load Regulation	ΔV _{OUT}	7V	1mA≤ I _{OUT} ≤ 30mA		60	100	mV
Voltage Drop	V _{DIF}	--	I _{OUT} =1mA		100		
Output Current	I _{OUT}	7V		20	30		mA
Current Consumption	I _{SS}		No load		5	9	uA
Line Regulation	ΔV _{OUT} ΔV _{IN} X V _{OUT}	--	6V ≤ V _{IN} ≤ 24V I _{OUT} =1mA		0.2		%/V
Temperature Coefficient	ΔV _{OUT} ΔT _a	7V	I _{OUT} =10mA 0°C<Ta<70°C		±0.75		mV/°C

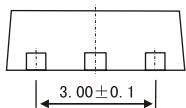
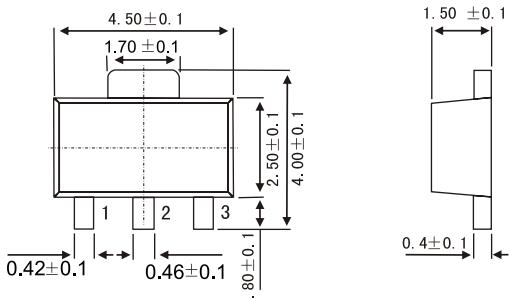
Application Circuits

Basic circuits



High Voltage LDO Regulator multicomp PRO

Diagram



1.GND

2.VIN

3.VOUT

Dimensions : Millimetres

Part Number Table

Description	Part Number
High Voltage LDO Regulator, 3.0V, ±5%, SOT-89	HT7130
High Voltage LDO Regulator, 3.3V, ±5%, SOT-89	HT7133
High Voltage LDO Regulator, 5.0V, ±5%, SOT-89	HT7150

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