

Device Information

EL7518

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White LED Step-Up Regulator

Ordering Information

 **Green/Pb (Lead) Free Device**

Part No.	Status	Temp.	Package	Price			
				MSL	US \$		
EL7518IWTZ 	Active	Ind	8 Ld TSOT	3		Buy	Sample
EL7518IWTZ-T7 	Active	Ind	8 Ld TSOT T+R	3		Buy	
EL7518IWTZ-T7A 	Active	Ind	8 Ld TSOT T+R	3		Buy	
EL7518IYZ 	Active	Ind	8 Ld MSOP	2		Buy	Sample
EL7518IYZ-T13 	Active	Ind	8 Ld MSOP T+R	2		Buy	
EL7518IYZ-T7 	Active	Ind	8 Ld MSOP T+R	2		Buy	
EL7518IWT	Coming Soon	Ind	8 Ld TSOT				
EL7518IWT-T7	Coming Soon	Ind	8 Ld TSOT T+R				
EL7518IWT-T7A	Coming Soon	Ind	8 Ld TSOT T+R				
EL7518IY	Coming Soon	Ind	8 Ld MSOP				
EL7518IY-T13	Coming Soon	Ind	8 Ld MSOP T+R				
EL7518IY-T7	Coming Soon	Ind	8 Ld MSOP T+R				

The price listed is the manufacturer's suggested retail price for quantities between 100 and 999 units. However, prices in today's market are fluid and may change without notice.

MSL = Moisture Sensitivity Level - per IPC/JEDEC J-STD-020

SMD = Standard Microcircuit Drawing

Description

The EL7518 is a constant current boost regulator specially designed for driving white LEDs. It can drive 4 LEDs in series or up to 12 LEDs in parallel/series configuration and achieves efficiency up to 91%.

The brightness of the LEDs is adjusted through a voltage level on the CNTL pin. When the level falls below 0.1V, the chip goes into shut-down mode and consumes less than 1µA of supply current for V_{IN} less than 5.5V.

The EL7518 is available in the 8-pin TSOT package which is just 1mm high, compared to 1.45mm for the standard SOT-23 package.

Key Features

- 2.6V to 13.2V input voltage
- 18V maximum output voltage
- Drives up to 12 LEDs
- 1.5MHz switching frequency
- Up to 91% efficiency
- 1μA maximum shut-down current
- Dimming control
- 8-pin TSOT package
- Pb-free available

Parametric Data

V _{IN} (min) (V)	2.6
V _{IN} (max) (V)	13.2
V _{OUT} (max) (V)	18
I _{OUT} (max) (V)	.6
Efficiency (%)	91
Frequency (MHz)	1.4
Shut-Down I _{CNTL} (max) (A)	1

Applications

- PDAs
- Cellular phones
- Digital cameras
- White LED backlighting

Related Devices

 [Parametric Table](#)

- [EL1848](#) White LED Step-Up Regulator
- [EL7513](#) Integrated FET, Constant Current Boost for 12 White LEDs

