

## 27W SWITCHING REGULATOR FOR AUTOMOTIVE APPLICATION

Type	$V_i$	$V_o$	$I_o$
GS-R218	10,5 to 16,0 V	18 V	1,5 A

### DESCRIPTION

The GS-R218 is a switching voltage regulator that can deliver an output current of 1,5 A at 18 V when supplied by a car battery.

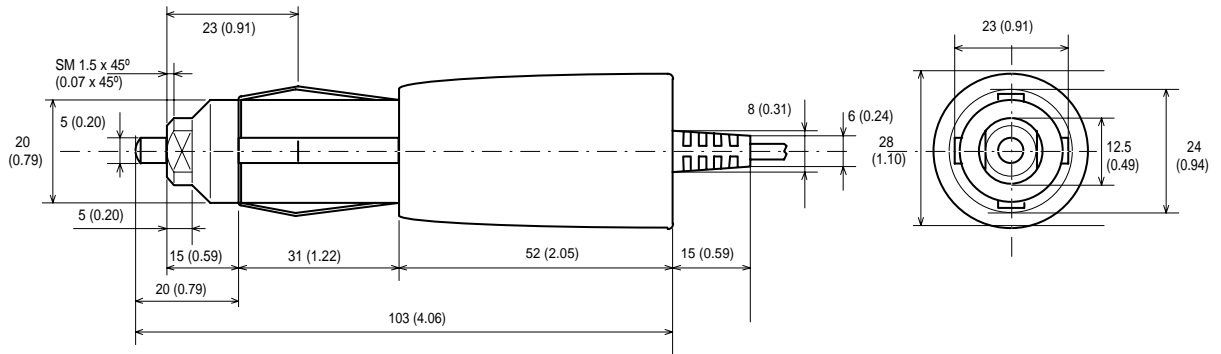
The regulator uses a cigar lighter case with a coiled cord and it is protected against overloads and short circuits at the output (latching overload protection: to restart the regulator after the intervention of the overload protection, the input voltage must be switched OFF and ON again).



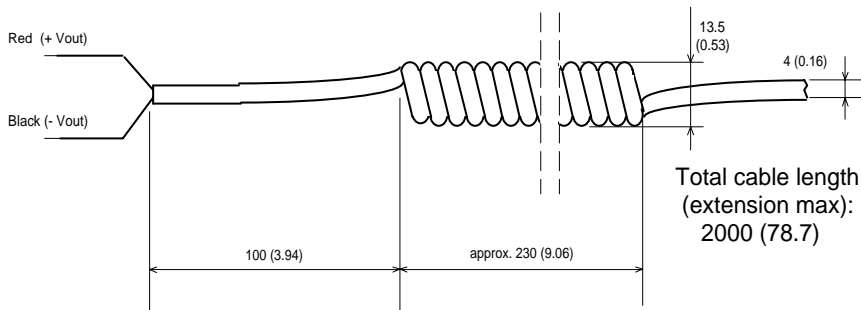
### ELECTRICAL CHARACTERISTICS ( $T_{amb} = 25^{\circ}\text{C}$ unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
$V_i$	Input Voltage	$V_o = 18\text{ V}$ $I_o = 0$ to 1.5 A	10.5		16	V
$I_{iq}$	Input Quiescent Current	$V_i = 13\text{ V}$ $I_o = 0\text{ A}$		17		mA
$V_o$	Output Voltage	$V_i = 10.5$ to 16 V $I_o = 0$ to 1.5A	16.6	18	18.7	V
$I_o$	Output Current	$V_i = 10.5$ to 16V	0.0		1.5	A
$I_{ol}$	Output Overload Current	$V_i = 10.5$ to 16 V	1.6			A
$V_{or}$	Output Ripple Voltage	$V_i = 13\text{ V}$ $I_o = 1.5\text{ A}$		200		mVpp
$\eta$	Efficiency	$V_i = 13\text{ V}$ $I_o = 1.5\text{ A}$		90		%
$f_s$	Switching Frequency			300		kHz
$T_{op}$	Operating Ambient Temperature Range		- 20		+60	$^{\circ}\text{C}$
$T_{stg}$	Storage Temperature Range		- 20		+85	$^{\circ}\text{C}$

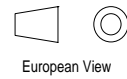
CONNECTION DIAGRAM AND MECHANICAL DATA



Coiled cable



Total cable length  
(extension max):  
2000 (78.7)



Output connector to be defined according to customer specifications  
Dimensions in mm (inches).

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