

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.

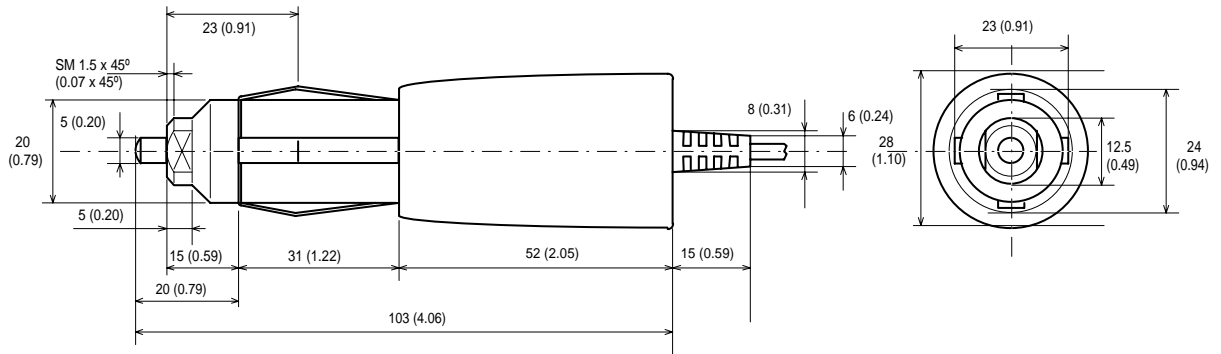
The regulator uses a cigar lighter case with a coiled cord and it is protected against overloads and short circuits at the output (latching overload protection: to restart the regulator after the intervention of the overload protection, the input voltage must be switched OFF and ON again).



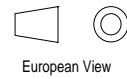
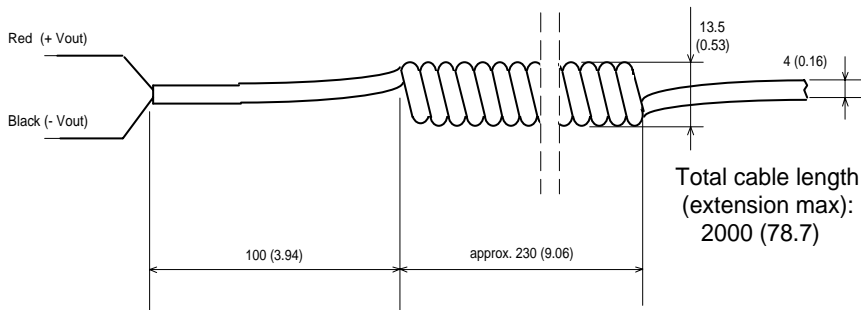
ELECTRICAL CHARACTERISTICS (T_{amb} = 25°C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V _i	Input Voltage	V _o = 18 V I _o = 0 to 1.5 A	10.5		16	V
I _{iq}	Input Quiescent Current	V _i = 13 V I _o = 0 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 V I _o = 1.5A		200		mVpp
η	Efficiency	V _i = 13 V I _o = 1.5A		90		%
f _s	Switching Frequency			300		kHz
T _{op}	Operating Ambient Temperature Range		- 20		+60	°C
T _{stg}	Storage Temperature Range		- 20		+85	°C

CONNECTION DIAGRAM AND MECHANICAL DATA



Coiled cable



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

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