


**GS-R218**
**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.

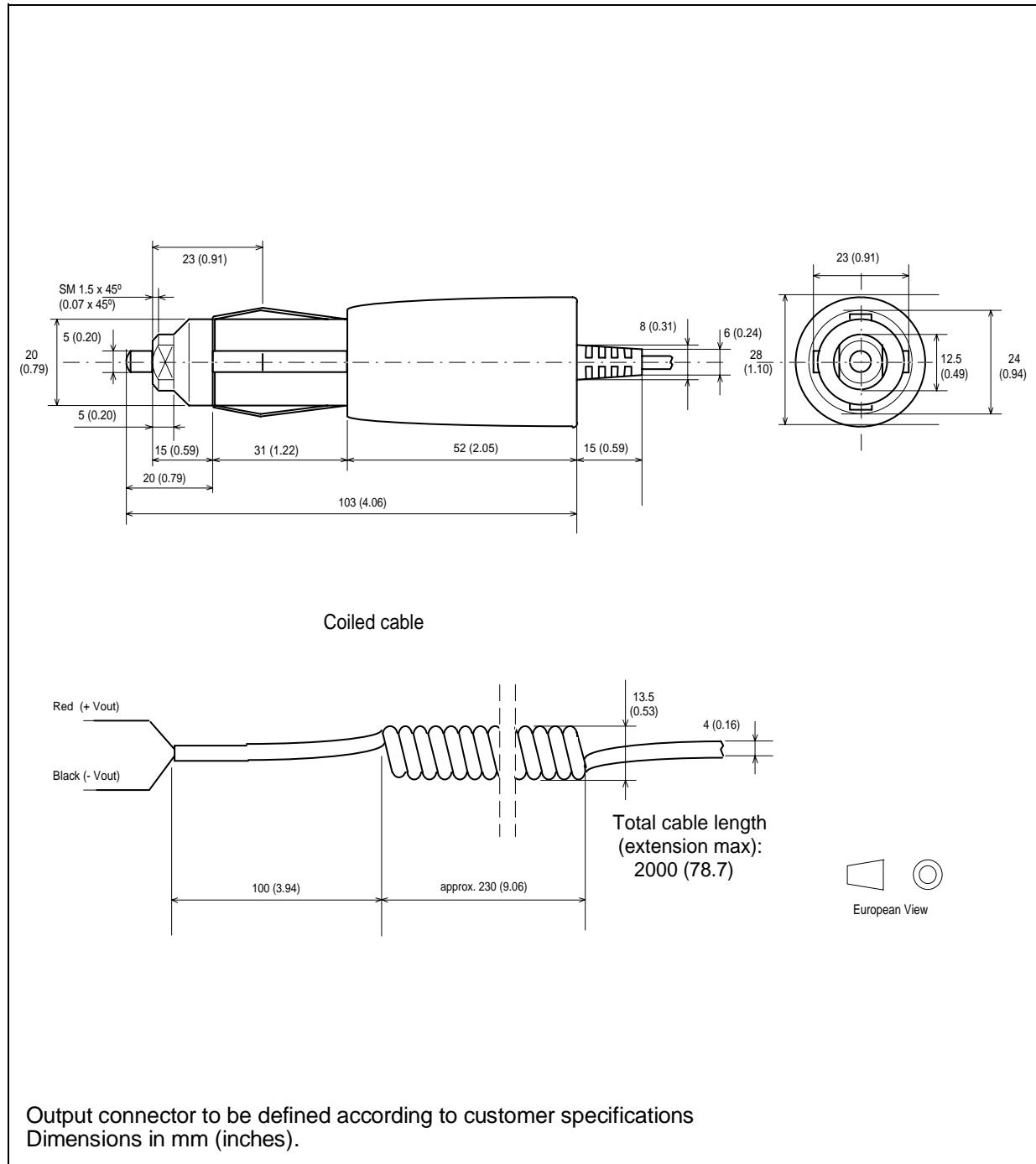
The regulator uses a cigar lighter case with a coiled cord and it is protected against overloads and short circuits at the output (latching overload protection: to restart the regulator after the intervention of the overload protection, the input voltage must be switched OFF and ON again).


**ELECTRICAL CHARACTERISTICS ( $T_{amb} = 25^\circ C$  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 $1.5 A$	16.6	18	18.7	V
$I_o$	Output Current	$V_i = 10.5$ to $16 V$	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	$V_i = 13 V$ $I_o = 1.5 A$		200		mVpp
$\eta$	Efficiency	$V_i = 13 V$ $I_o = 1.5 A$		90		%
$f_s$	Switching Frequency			300		kHz
$T_{op}$	Operating Ambient Temperature Range		-20		+60	°C
$T_{stg}$	Storage Temperature Range		-20		+85	°C

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### CONNECTION DIAGRAM AND MECHANICAL DATA



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