

GS-R218

27W SWITCHING REGULATOR FOR AUTOMOTIVE APPLICATION

Туре	V _i	٧o	lo
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).

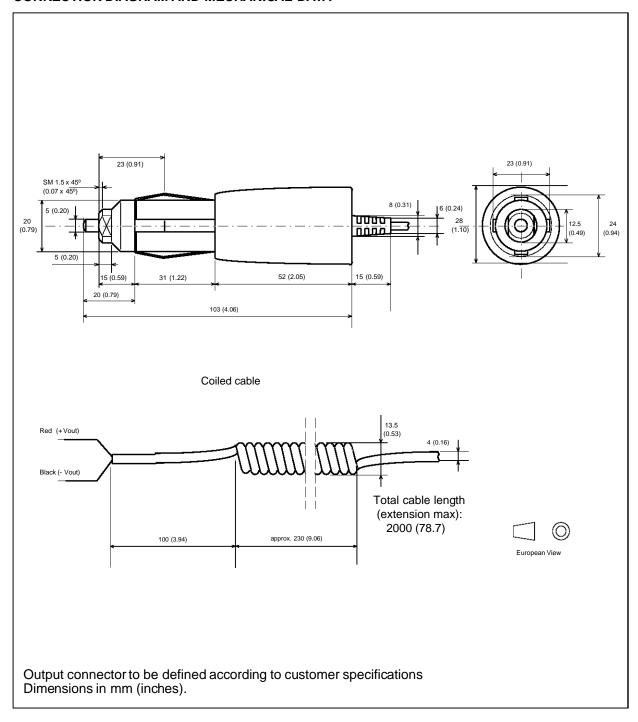


ELECTRICAL CHARACTERISTICS (T_{amb} = 25°C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Тур	Max	Unit
Vi	Input Voltage	$V_0 = 18 \text{ V}$ $I_0 = 0 \text{ to } 1.5 \text{ A}$	10.5		16	V
liq	Input Quiescent Current	Vi = 13 V I ₀ = 0 A		17		mA
Vo	Output Voltage	$V_i = 10.5 \text{ to } 16 \text{ V } I_0 = 0 \text{ to } 1.5 \text{A}$	16.6	18	18.7	V
lo	Output Current	V _i = 10.5 to 16V	0.0		1.5	Α
lol	Output Overload Current	V _i = 10.5 to 16 V	1.6			Α
Vor	Output Ripple Voltage	V _i = 13 V I _O = 1.5A		200		mVpp
η	Efficiency	Vi = 13 V I _O = 1.5A		90		%
f _S	Switching Frequency			300		kHz
Тор	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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