



GS5T48-15

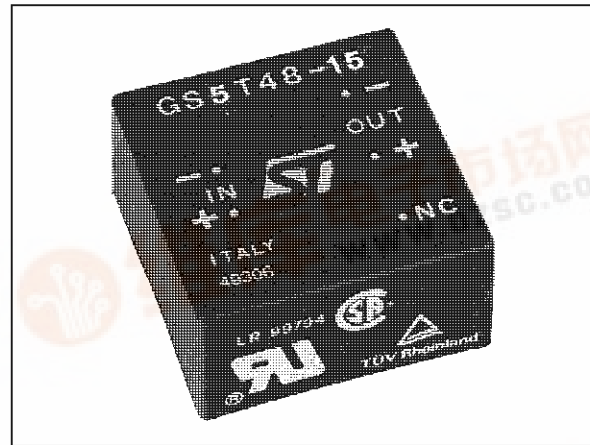
5 W DC-DC CONVERTER

Type	V_i	V_o	I_o
GS5T48-15	38 to 60 V	15 V	330 mA

DESCRIPTION

The GS5T48-15 is a 5W DC-DC converter designed to provide a 15V/330mA isolated power source.

The module features a wide input voltage range (38 to 60V), low reflected input current and continuous short-circuit protection. It is certified by UL, CSA (level 3) and TUV as having SELV output when provided with a SELV input.



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

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V_i	Input Voltage	$V_o = 15V$ $I_o = 50$ to 330mA	38	48	60	V
I_i	Input Current	$V_i = 38$ to 60V $I_o = 330mA$			500	mA
I_{ir}	Input Reflected Current	$V_i = 48V$ $V_o = 15V$ $I_o = 330mA$		25	40	mApp
V_o	Output Voltage	$V_i = 38$ to 60V $I_o = 50$ to 330mA	14.5	15	15.5	V
V_{or}	Output Ripple Voltage	$V_i = 48V$ $I_o = 330mA$ BW = 5Hz to 20MHz		50	100	mVpp
δV_{OL}	Line Regulation	$V_i = 38$ to 60V $I_o = 330mA$		1	2	mV/V
δV_{OO}	Load Regulation	$V_i = 48V$ $I_o = 50$ to 330mA		100	150	mV/A
I_o	Output Current	$V_i = 38$ to 60V $V_o = 15V$	50		330	mA
I_{osc}	Output Short-circuit Current	$V_i = 48V$			1.8	A
V_{is}	Isolation Voltage		500			V _{DC}
f_s	Switching Frequency	$V_i = 38$ to 60V $I_o = 50$ to 330mA	30		200	kHz
η	Efficiency	$V_i = 48V$ $I_o = 330mA$	80	82		%
T_{op}	Operating Ambient Temperature Range	Still air	0		+60	$^{\circ}C$
T_{op}	Operating Ambient Temperature Range	Forced ventilation, air speed = 100 LFM	0		+70	$^{\circ}C$
T_{stg}	Storage Temperature Range		-40		+85	$^{\circ}C$

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