

Model:GTD9X0160-16VV

May 5, 2024

GTD9X0160-16VV

Information

Model Number	GTD9X0160-16VV
Description	GTD9X0160-16VV, DC/DC Switching Power Supply, Vehicle/Car DC/DC Converter, DC-DC, , Input Rating: 12-24 Vdc, Lead Wire, Terminal :TE 2-520102-2, Output Rating: 15.5 Watts, Power rating with convection cooling (W) , 5-5.5V in 0.1V increments, Approvals:

Model Picture



Agency Documents

CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0O3a00000Lr6smEAB
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0O3a00000Lr6smEAB
REACH Declaration	https://www.globtek.com/pdf/iso_certificates/REACH.pdf
Conflict Minerals Declaration	https://www.globtek.com/pdf/conflict-minerals.pdf

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MODEL PARAMETERS

Type	Vehicle/Car DC/DC Converter
Technology	DC-DC
Category	DC/DC Switching Power Supply
Input Voltage	12-24 Vdc
I/P Amps (A)	2.0 A
Wattage (W)	15.5
Vout Range (V)	5-5.5
Efficiency Level	
Ingress Protection	
Size (mm)	63.7 x 47.8 x 18.1 mm

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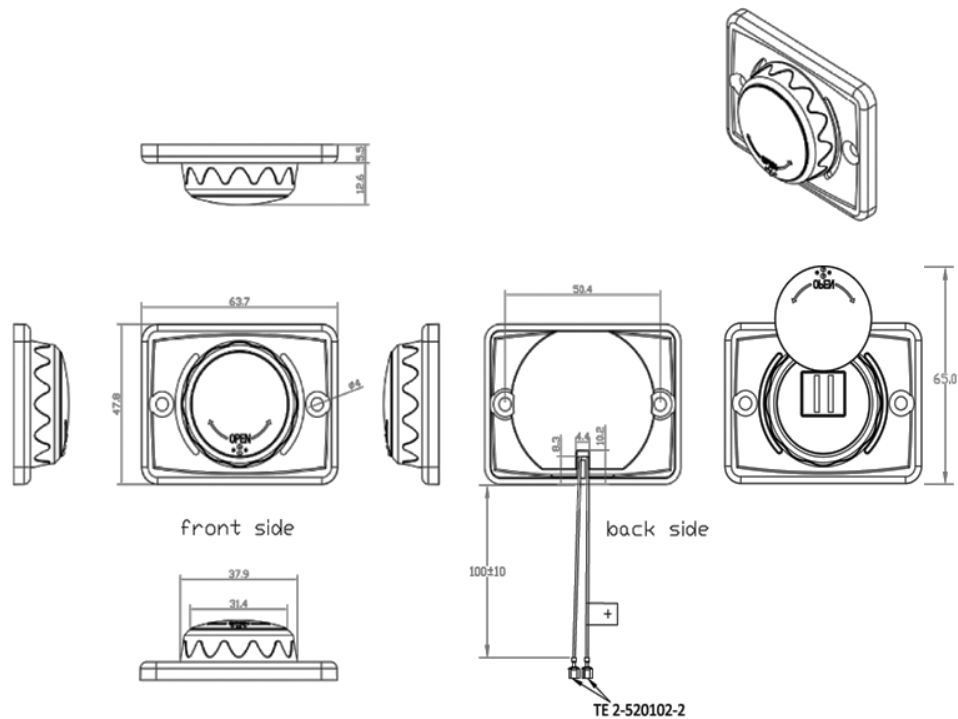
<https://www.globtek.com/ds/RDVqQYzyXn/F9fVLKceDWO.html>

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ENCLOSURE



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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTD9X0160-1605	5 V	3.1	15.50	RFQ

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SPECIFICATIONS

Input

Input Range 12 - 24VDC**Input Current** 2.0A (max) @ 12VDC & peak output current rating

Output

Output Voltage/Current: USBA 5V3.1A total**Turn-on Delay:** < 3 seconds**Output Regulation** '+/- 5% MEASURED AT O/P CONNECTOR**Line Regulation:** '+/- 1% TYPICAL MEASURED AT THE OUTPUT CONNECTOR**Ripple:** 1% OR 100 mV WHICHEVER IS GREATER. MEASURED AT 20 MHz
BANDWIDTH WITH 0.1 μ f CERAMIC CAPACITOR IN PARALLEL WITH 47 μ f
ELECTROLYTIC CAPACITOR CONNECTED AT THE END
OF OUTPUT CONNECTOR AT NOMINAL LINE**Transient Response (Step Load):** 10% MAXIMUM, 1mS TYPICAL RECOVERY TIME FOR 25% STEP LOAD**INRUSH Current** 15A TYPICAL AT 24V INPUT

Protections

Input Protection: Input line fusing**Output Over-Current Protection:** Current limit**Over-Temperature Protection:** Thermal shutdown function

Environmental

MTBF: > 750,000 hours @ 50°C ambient (Demonstrated +
Telcordia SR-332, Issue 3)
> 1,500,000 hours @ 25°C ambient (Telcordia SR-332,
Issue 3)

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Operating Temperature:	-20°C to 45°C (nominal load)
Storage Temperature:	-20°C to 85°C
Humidity:	0% to 95% relative humidity, non-condensing
Altitude	5000m
Cooling:	Convection
RoHS:	Complies with EU 2011/65/EU and China SJ/T 11363-2006

Enclosure

Housing: High impact plastic, 94V0 polycarbonate, non-vented

Markings: Adhesive backed label or laser engraving

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DERATING CURVE

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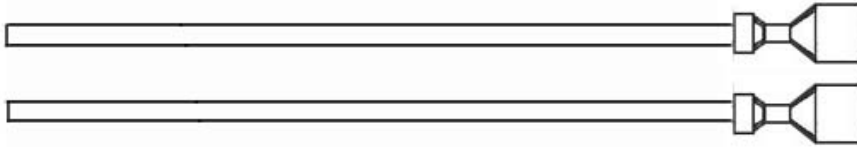
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INPUT CONFIGURATION

Description

Lead Wire, Terminal :TE 2-520102-2



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OUTPUT CONFIGURATION

Common output connector options:



L Type (Coaxial
5.5x2.5mm plug)



C Type (Coaxial
5.5x2.1mm plug)



K Type (Coaxial
3.5x1.3mm plug)



LL Type (5.5x2.5mm
Locking 760k type)



CL Type (5.5x2.1mm
Locking S761k type)



ML2 Type (Molex
housing 43025-0200)



YL3 Type
(KPPX-3P)



YL4 Type (KPPX-4P)



EJ1/2/3/4/5 (EIAJ
RC-5320A type
connectors)



MSB Type (Micro
USB)



USBC Type (USB
Type C)



Inquire for custom
design

For a comprehensive list of options, [click here](#)

Contact GlobTek for your specific requirements or custom solutions.

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Approvals

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