

Delivering leading edge, innovative power solutions for more than 30 years....

Model:GTD9X0160-16VV

August 17, 2022

## 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	<a href="https://www.globtek.com/pdf/ec_declaration/a003a00000Lr6smEAB">https://www.globtek.com/pdf/ec_declaration/a003a00000Lr6smEAB</a>
RoHS/RoHS2 Declaration	<a href="https://www.globtek.com/pdf/rohs_cert/a003a00000Lr6smEAB">https://www.globtek.com/pdf/rohs_cert/a003a00000Lr6smEAB</a>
REACH Declaration	<a href="https://www.globtek.com/pdf/iso_certificates/REACH.pdf">https://www.globtek.com/pdf/iso_certificates/REACH.pdf</a>
Conflict Minerals Declaration	<a href="https://www.globtek.com/pdf/conflict-minerals.pdf">https://www.globtek.com/pdf/conflict-minerals.pdf</a>

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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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## RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
GTD9X0160-1605	5 V	3.1	15.50	<a href="#">RFQ</a>

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## SPECIFICATIONS

### Input

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

### Output

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**Output Voltage/Current:** USB-A 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 µf CERAMIC CAPACITOR IN PARALLEL WITH 47 µf  
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

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

### Environmental

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

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**Enclosure**

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**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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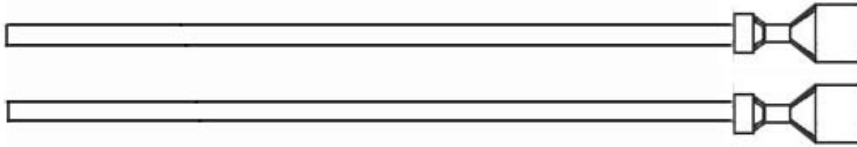
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**INPUT CONFIGURATION**

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

Logo	
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