

## WPANT50039

### Isolation Circuit Board for eMCC



WPANT50039-C1A

*0.085 semi-rigid with MCX Jack to 8"  
micro co-ax with IPX MHF connector*

WPANT50039-C2A

*0.085 semi-rigid with MCX Jack to 8"  
RG178 cable with RA-MMCX Plug*

*Note: Different cable and connector style requests can be accommodated.*

### Application

This coupler provides good isolation from RF noise and high voltages. It is suitable for use in energy utility meters. It comes with a 0.085 semi-rigid cable with MCX jack at one end and an 8" long cable with a connector at the other end.

We specialize in developing customized Antenna solutions. Please contact [sales@worldproducts.com](mailto:sales@worldproducts.com) with your specific application requirements.

### Electrical Properties

<b>Operating Frequency</b>	690 MHz – 3 GHz
<b>Insertion Loss [dB] (Typical)</b>	0.2 dB
<b>Input VSWR (Typical)</b>	< 1.5:1
<b>Output VSWR (Typical)</b>	< 1.5:1
<b>Input / Output Impedance [<math>\Omega</math>]</b>	50 $\Omega$
<b>Voltage Rating</b>	500 Volts AC

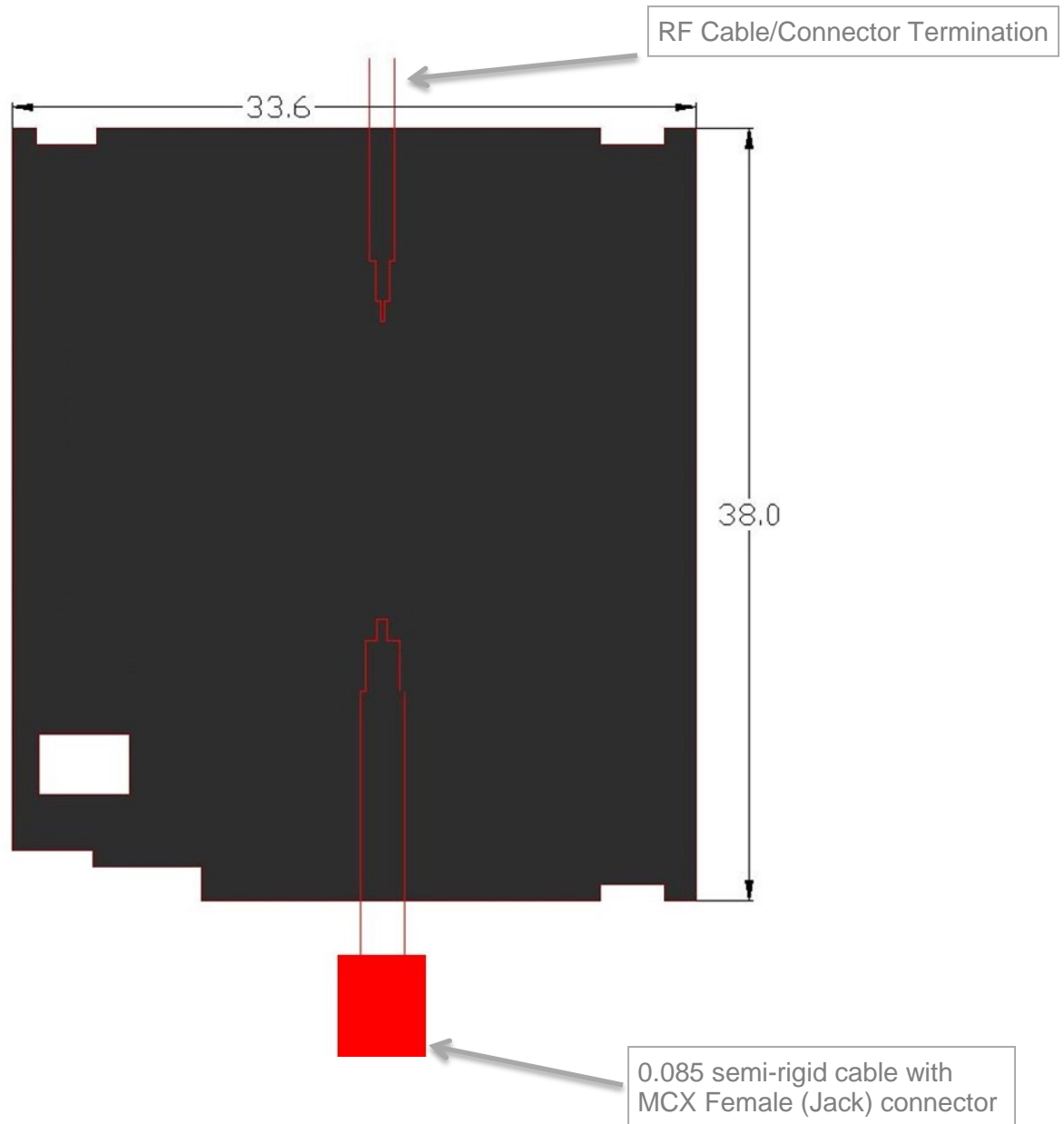
### Mechanical / Environmental Properties

<b>PCB Dimensions</b>	1.5" X 1.3" X 0.062" (38mm x 33.6mm x 1.6mm)
<b>Adapter Color</b>	Black
<b>Operating / Storage Temperature</b>	-40°C to +125°C
<b>Environmental</b>	Meets standards for UL 94V-0
<b>Hazardous Materials</b>	RoHS Compliant
<b>Panel Mount Connector</b>	MCX Jack
<b>WPANT50039-C1A RF Cable Termination</b>	1.32mm micro-coax with IPX MHF
<b>WPANT50039-C2A RF Cable Termination</b>	RG-178 cable with RA-MMCX Plug

Picture



## Board Layout



Note: All units are in millimeters (mm).



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# **APPROVALS**

## **Customer**

Approval Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Approval Date: \_\_\_\_\_

## **World Products Inc.**

Approval Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Approval Date: \_\_\_\_\_