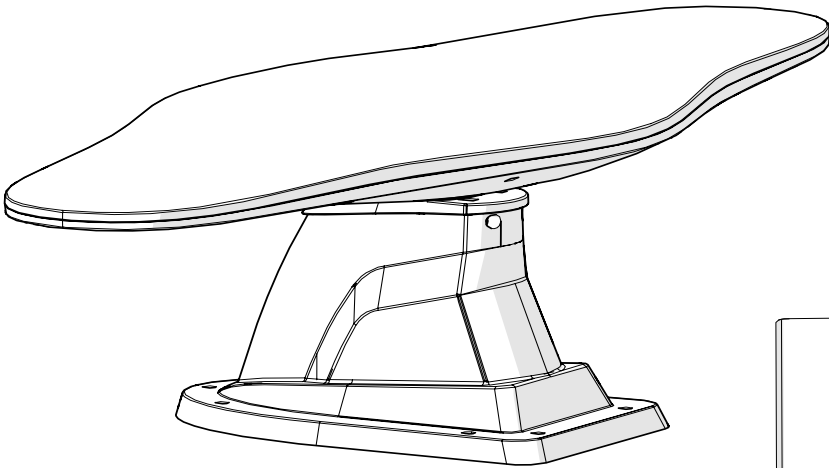


FURRION

TV/AM/FM/LTE ROOFTOP ANTENNA WITH CEILING MOUNT BRACKET

Instruction Manual



Ceiling Mount Bracket

Model: FAN73B7C-BL
FAN73B7C-BL2
FAN73B7C-BL3

Welcome

Thank you for purchasing this Furrion® TV/AM/FM/LTE Rooftop Antenna with ceiling mount bracket. Before operating your new product, please read these instructions carefully. This instruction manual contains information for safe use, installation and maintenance of the product.

Please keep this instruction manual in a safe place for future reference. This will ensure safe use and reduce the risk of injury. Be sure to pass on this manual to new owners of this product.

The manufacturer does not accept responsibility for any damages due to not observing these instructions.

If you have any further questions regarding our products, please contact us at support@furrion.com

Supplier's Declaration of Conformity

47 CFR § 2.1077 Compliance Information

Unique Identifier

Trade Name: Furrion

Model No.: FAN73B7C-BL, FAN73B7C-BL2, FAN73B7C-BL3

Responsible Party – U.S. Contact Information

Furrion Innovation Center & Institute of Technology

52567 Independence Ct., Elkhart, IN 46514, USA

Toll free: 1-888-354-5792; Email: support@furrion.com

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Industry Canada Statement

This Class B digital apparatus complies with Canadian ICES-003.
CAN ICES-3 (B)/NMB-3(B)

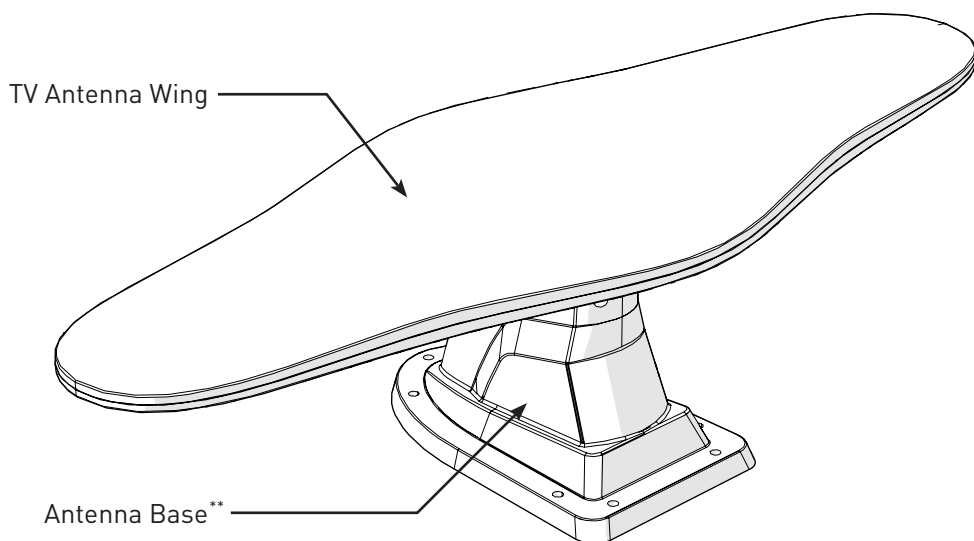
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Product Overview

Product Features

- Compatible with HDTV of various digital terrestrial signals (DVB-T, ISDB-T, DTMB, ATSC), stereo and FM/AM radios.*
- The waterproof housing is UV resistant, and is designed for superior durability using injection mold.
- Omni directional antennas receive VHF, UHF, FM and AM signal from every point regardless of the direction you are traveling.
- Built-in high gain and low noise amplifier.
- The antenna is surface-treated to withstand impact from all weather conditions.
- SMT Technology and micro-electronics ensure excellent antenna performance.



* FAN73B7C-BL2 and FAN73B7C-BL3 are compatible with KeyTV.

** The outline of the antenna base equipped with FAN73B7C-BL3 is slightly different.

Installation

Do not install couplers, splitters, etc. between the power supply and the antenna. Installation of any item on the download may cause a short in the system. The download supplies +12VDC to the preamp in the antenna. The power supply should be turned OFF when connecting or disconnecting cables to the power supply and antenna, but should be turned ON during voltage testing.

What's in the Box

Make sure you have the following items included in the packaging. If any items are damaged or missing, contact your dealer.

- TV Antenna Wing x 1
- Antenna Base x 1
- Ceiling mount bracket x 1
- 4 x 12 mm square socket pan head tapping screws x 2
- Warranty Card x 1
- Instruction Manual x 1

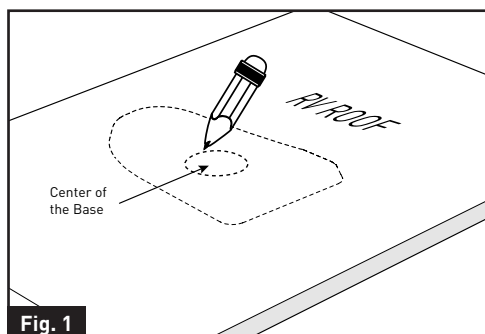
Mounting the Antenna

There are two ways of installing the rooftop antenna:

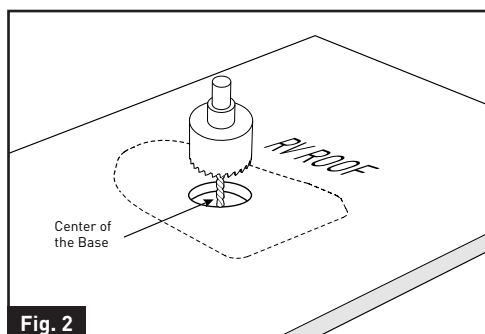
- **Method 1** - Making a new opening. In this case the ceiling of the RV must be accessible.
- **Method 2** - Using the existing opening in the vehicle roof.

Making a New Opening

1. Select a flat location where there is sufficient area to mount and seal the antenna to the roof surface. Do not install the antenna next to any other device on the rooftop.
2. Mark a basic hole outline on the RV rooftop using the antenna base as a template. (Fig. 1)*



3. Drill a 2" (50mm) circle hole in the RV roof using a hole saw. (Fig. 2)**

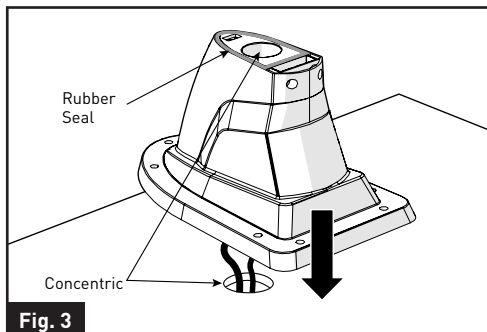


*. ** The outline of the antenna base equipped with FAN73B7C-BL3 is slightly different.

Installation

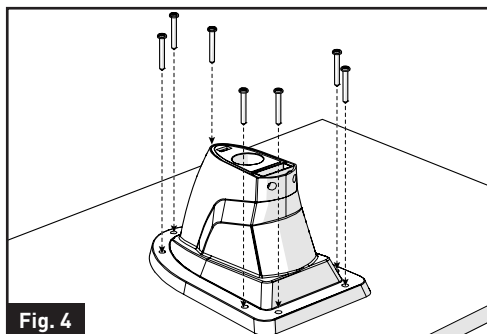
4. Thread the cables of the LTE antenna base through the opening. Put the LTE antenna base over the opening area. (Fig. 3)

NOTE: Make sure the center hole of the LTE antenna is aligned with the hole in the RV roof.

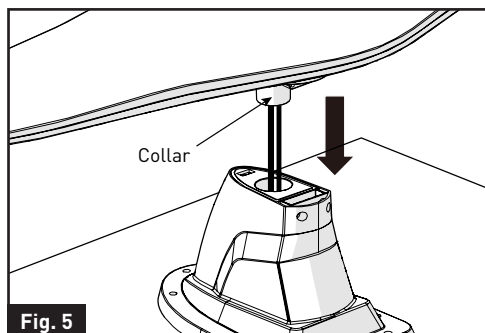


5. Fix the LTE antenna base on the RV roof using seven stainless steel self-tapping screws and tighten using a screwdriver. (Fig. 4)***

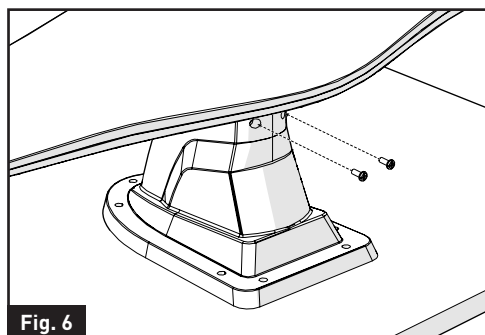
NOTE: Do not overtighten as damage to the base may occur, which will void the warranty. A screw angle up to 30 degrees is acceptable without damaging the base.



6. Insert the bottom collar of the TV antenna wing into the center hole of the LTE antenna base. (Fig. 5) Make sure the rubber seal on top of the LTE antenna base is in location.



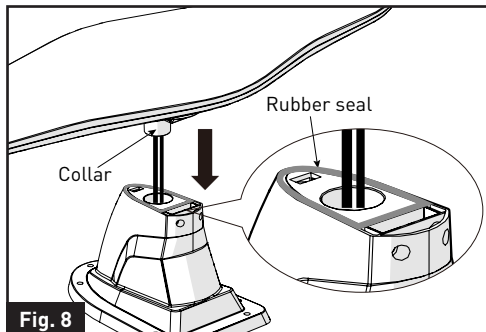
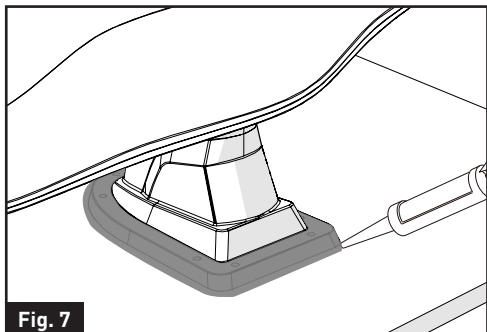
7. Fix the TV antenna wing in the LTE antenna base using the two 4 x 12mm square socket pan head tapping screws provided with the product. (Fig. 6)



8. Apply a liberal amount of sealant around the antenna base and the screw holes to prevent water leakage if necessary. Check with the RV manufacturer for the standard sealant for the vehicle. (Fig. 7)

*** For FAN73B7C-BL3, six screws are needed.

Installation



9. Follow the wiring guidelines below to connect the cables of TV/FM antenna (black) and FM/AM antenna (white) from the interior of the RV ceiling. See **"Wiring Diagram"** section for detail.

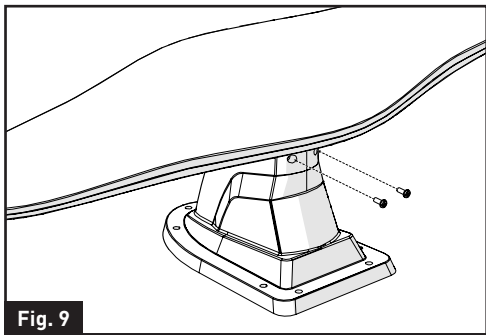
- **TV/FM antenna (Black)** with extension cable to DC powered wall-plate.
- **FM/AM antenna (White)** to audio system.

Using the Existing Opening

1. Unscrew and remove the old TV antenna from the RV rooftop.
2. Remove all caulking compound around the opening.
3. Insert the bottom collar of the TV antenna wing into the center hole of the antenna base.

NOTE: Make sure the rubber seal on top of the LTE antenna base is in location. (Fig. 8)

4. Fix the TV antenna wing in the base using the two 4 x 12mm square socket pan head tapping screws provided with the product. (Fig. 9)

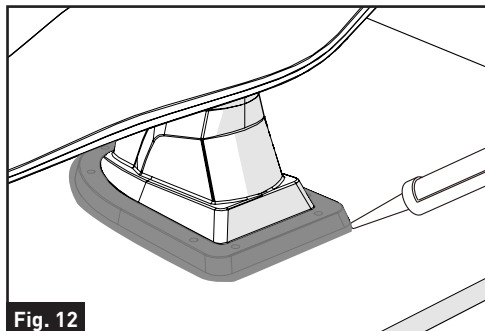
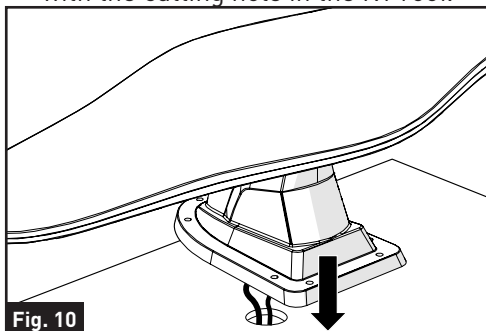


5. Following the guidelines below to connect the cables of TV/FM antenna (black) and FM/AM antenna (white) from the interior of the RV ceiling. See **"Wiring Diagram"** section for detail.
 - **TV/FM antenna (Black)** with extension cable to DC powered wall-plate.
 - **FM/AM antenna (White)** to audio system.
6. Thread the cables of the antenna base through the opening. (Fig. 10)

NOTE: Make sure the middle circle of the LTE antenna is center aligned

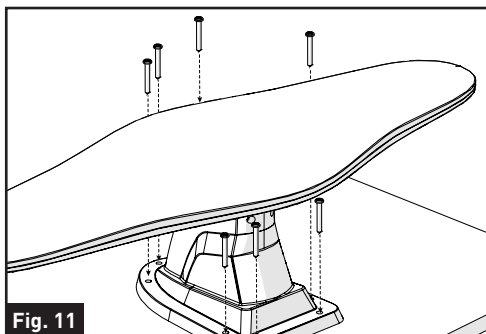
Installation

with the cutting hole in the RV roof.



7. Fix the antenna base on the RV roof using seven stainless steel self-tapping screws and tighten using a screwdriver. (Fig. 11)****

NOTE: Do not overtighten as damage to the base may occur, which will void the warranty. A screw angle up to 30 degrees is acceptable without damaging the base.



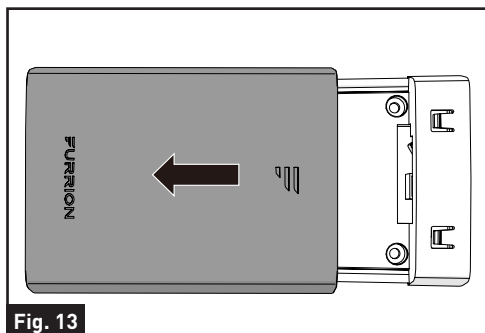
8. Apply a liberal amount of sealant around the antenna base and the screw holes to prevent water leakage if necessary. Check with the RV manufacturer for the standard sealant for the vehicle. (Fig. 12)

**** For FAN73B7C-BL3, six screws are needed.

Installing the Ceiling Mount Bracket

NOTE: It is recommended that you have all the wires connected before permanently installing the ceiling mount bracket onto the rooftop. See 'Wiring Diagram' section on how to connect the wires.

1. Push to remove the top cover of the ceiling mount bracket. (Fig. 13)



2. Follow the wiring guidelines below to connect the cables from the interior of the RV ceiling. See "Wiring Diagram" section for detail. Fix the wires with nylon cable tie. (Fig. 14)

Installation

- **LTE Antennas:** Connect to the rooftop unit by mapping the same wire color.
- **Power Wires:** Connect to the RV +12Vdc (current rating >1A) power source. Red is power wire, Black is ground wire.
- **Network Wires:** Connect to the network interface in the RV.

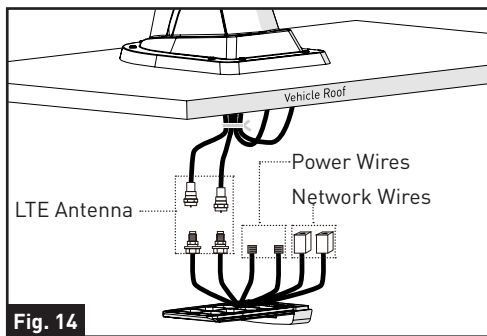


Fig. 14

3. Cover the base of the ceiling mount bracket over the cutout area and secure with eight stainless steel self-tapping screws (not supplied). (Fig. 15)

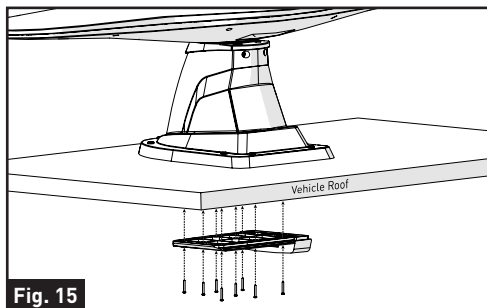


Fig. 15

4. Place back the top cover to the ceiling mount bracket. (Fig. 16)

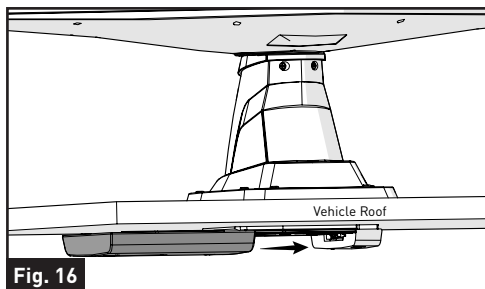


Fig. 16

Mounting the Wall Plate

The wall plate may be flush-mounted in most standard electrical boxes.

1. Select a suitable location that is not susceptible to moisture.
2. Mark and cut a hole in the RV wall.
3. Connect the antenna cables to the wall plate. See 'Wiring Diagram' for detail info.
4. Fix the wall plate in the wall using 2 stainless steel self-tapping screws (not included).

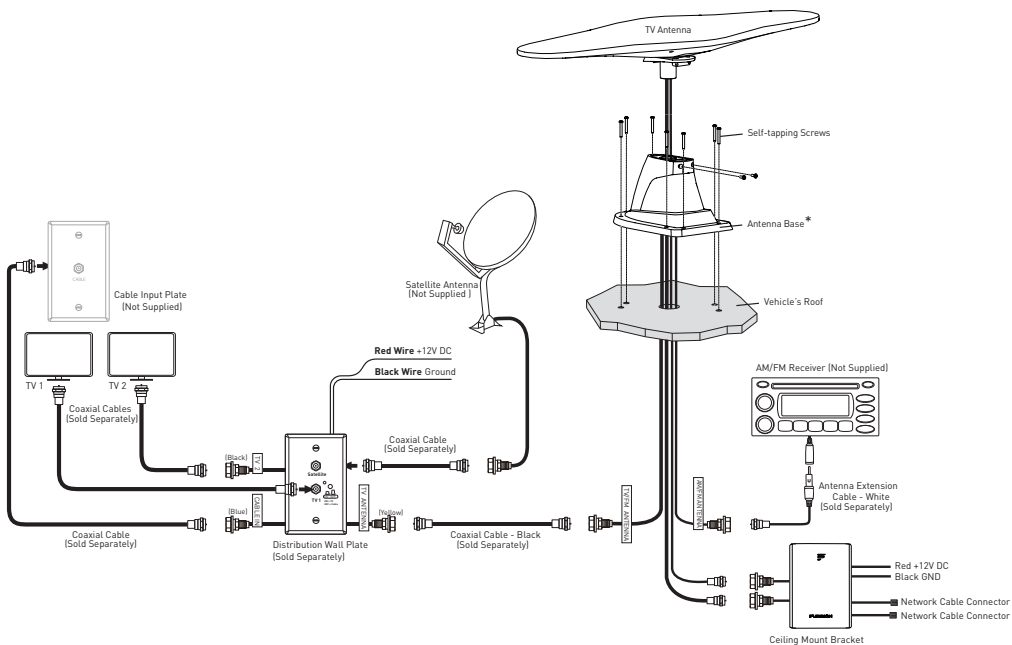
NOTE: The wall plate is sold separately, please contact the dealer for detail.

Connections

Wiring Diagram

Refer to accessories page for planning connections.

WARNING: The wall plate should be turned off while connecting cables. Connect the cables from the antenna to distribution wall plate and to the FM radio (AM Radio needs to connect the FM/AM antenna from the rooftop unit). Connect the power cables from the distribution wall plate according to the diagram below.



Testing the Power Supply

Make sure your TV set is working properly.

- Disconnect the cable from the antenna jack on the power supply and check for +12VDC. If +12VDC is present, there is a cable problem connecting the power supply to the antenna, repair/replace the cable. If +12VDC is not present at the antenna jack, be sure the indicator light is ON. If not, check the polarity of the red/white wires and the +12VDC source.

* The outline of the antenna base equipped with FAN73B7C-BL3 is slightly different.

Operation

Running a Channel Scan

To receive maximum number of channels, a channel scan is required once the antenna and power supply have been correctly installed and all cables have been properly connected.

A new scan might find any new channels that have been added in your area or find any channels that have been changed or moved since the last scan.

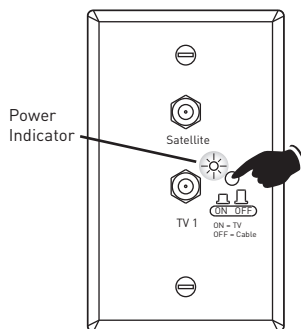
NOTE: Antenna reception may vary based on transmitting antenna tower height, lobe pattern of the transmitter, height of the receiving antenna, weather conditions and terrain on receiving path, including trees, buildings and hills.

The steps to perform a channel scan may vary between televisions or compatible devices. Always run a channel scan in the following situations:

- Anytime the antenna is moved or enters a new region
- Anytime a channel is lost.

Selecting TV Antenna Reception

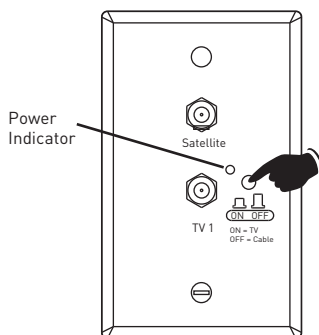
To receive TV antenna reception, press the ON/OFF switch and the power indicator will be lit.*



Selecting Cable TV

NOTE: The vehicle must be connected to an external cable source.

To receive cable TV, press the ON/OFF switch and the power indicator will be turned off.**



*. ** Skip the step of pressing the ON/OFF switch when a KeyTV system is installed.

Specifications

Technical Specification

MODEL		FAN73B7C-BL	FAN73B7C-BL2 FAN73B7C-BL3
OPERATING CONDITION			
VOLTAGE		9-16Vdc, 12Vdc typical	
CURRENT CONSUMPTION		<100mA @ 12V	
AM/FM ANTENNA			
AM FUNCTION	Frequency Range	520kHz to 1710kHz	
	Radiation Direction	Omni - direction	
FM FUNCTION	Antenna Gain	15dB Max	10dB Max
	Max. output level	106dBμV	
	Frequency Range	87.5MHz – 108MHz	
	Radiation Direction	Omni - direction	
	Impedance	75ohm	
	Noise Figure	<7dB	<11dB
TV ANTENNA			
UHF FUNCTION	Antenna Gain	28dB Max	
	Max. output level	105dBμV	
	Frequency Range	470MHz to 700MHz	
	Radiation Direction	Omni - direction	
	Impedance	75ohm	
	Noise Figure	<6dB	
FM / VHF FUNCTION	Antenna Gain	20dB/24 dB Max	15dB Max
	Max. output level	106dBμV	
	Frequency Range	47MHz – 230MHz	
	Radiation Direction	Omni - direction	
	Impedance	75ohm	
	Noise Figure	<7dB	<11dB



Furrion Innovation Center & Institute of Technology

- 52567 Independence Ct., Elkhart, IN 46514, USA ● Toll free: 1-800-789-3341
- Email: support@furrion.com

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Patents pending (FAN73B7C-BL)

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