

# AVIONICS RADIO ALTIMETER SURFACE MOUNT CIRCULATOR

MODEL 3SMH6NA

*efficient*

*“Provides the ability of cost efficient pick and place manufacturing”*

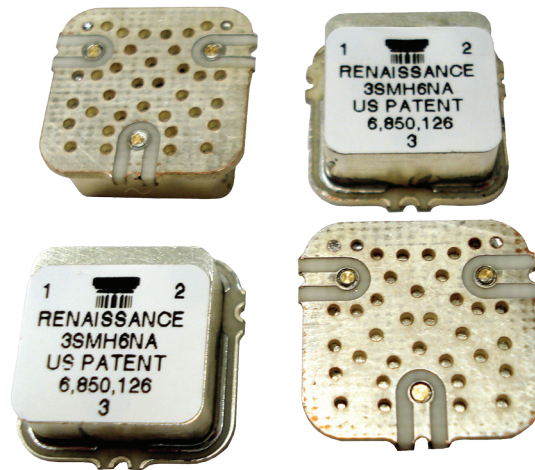
Renaissance Electronics Corporation has designed and manufactured an innovative industry first coplanar surface mount Circulator at 4.2 to 4.4 GHz. This newly invented and patented model series of surface mountable circulators is designated by our modeling number 3SMHXXX.

Our 1st model release in this series is directed to the avionics frequency band of 4.2 to 4.4 GHz, or also known as the Radio Altimeter and Radar Altimeter Band, model number 3SMH6NA.

This unique patented true coplanar surface mount design will allow avionic equipment manufacturers to incorporate surface mount technology into their new design efforts for improved system

performance while ensuring the best cost value in component selection through

- 1) Robust mechanical design to sustain aircraft shock and vibration
- 2) Provide low EMI/EMC characteristics and
- 3) Compatible electrical performance to existing drop-in models.



## Features

## Benefits

· Compact Size	· 0.630 " x 0.630 " x 0.190 "
· Mechanically Robust	· Steel Housing, Re-Flow Solder Technology
· True Coplanar SMT	· Pick and place low cost manufacturing compatible
· Low Insertion Loss	· Optimum System Performance
· High Isolation	· Improves XMT/RCV Isolation
· Temperature Stable From -40 to + 85°C	· Improves Systems Thermal Stability

  
**RENAISSANCE**<sup>®</sup>  
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*The New Thinking in Wireless Technology*



# Characteristics

## ELECTRICAL CHARACTERISTICS:

FREQUENCY RANGE 4.2 – 4.4 GHz

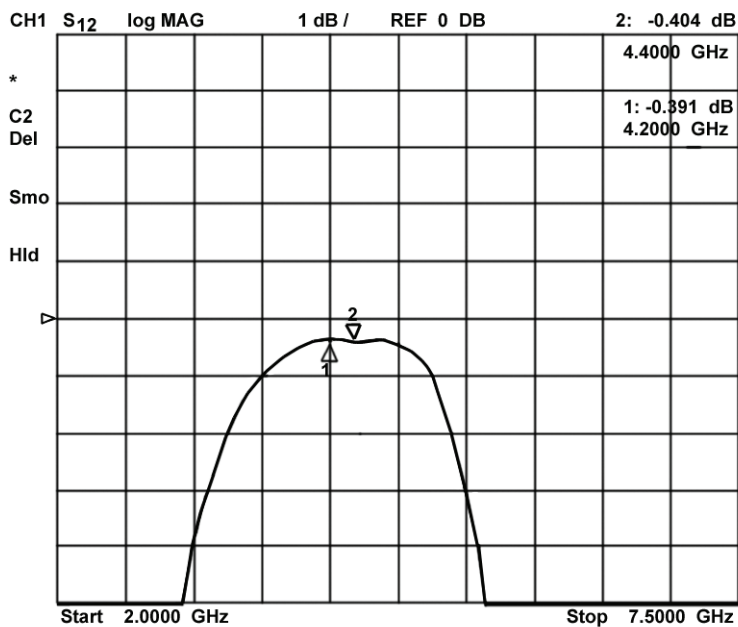
ISOLATION (MIN) 19 dB

INSERTION LOSS (MAX) 0.5 dB

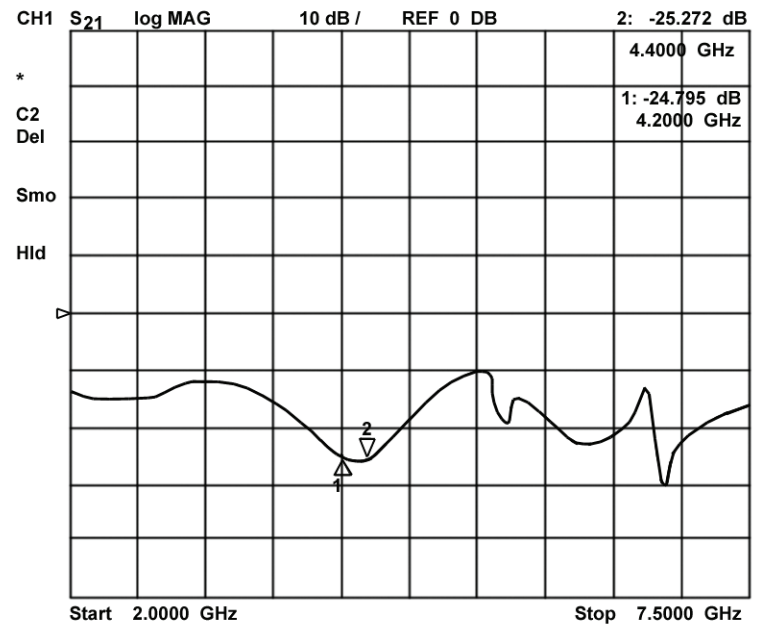
VSWR (MAX) 1.25 :1

TEMPERATURE RANGE -40°C TO +85 °C

## Insertion Loss



## Isolation



NOTE: INCLUDES TEST FIXTURE LOSS