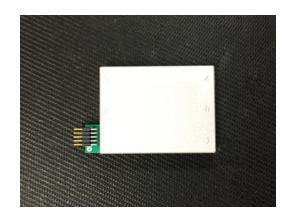


#### **FEATURES**

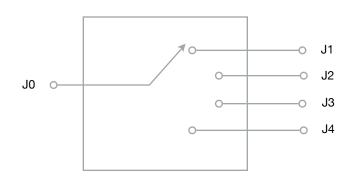
- Low Insertion Loss (< 2.6 dB typical)
- Long Switch Lifecycle (> 109 Switches)
- High Linearity for IP3 Measurements
- RF Shielded Package for Use in Fixtures

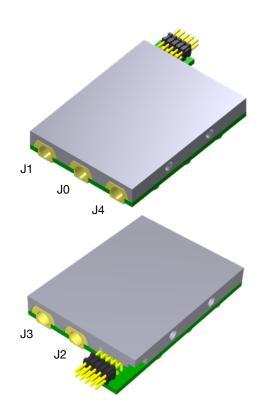


The RIK0253A is a Single-Pole Four-Throw (SP4T) Reflective RF Switch utilizing active pin diode technology to deliver high linearity and low insertion loss. This fixture module is ideally suited for high accuracy IP3 applications, test resource switching, and/or multisite signaling. The RIK0253A allows for drop-in implementation with seamless software integration and control with Cassini fixtures equipped with RIFL carriers. Supporting up to 1 watt of input signal power and sub-microsecond switching speeds, the RIK0253A offers a versatile RF switching solution for a wide array of applications.



### SIMPLIFIED BLOCK DIAGRAM

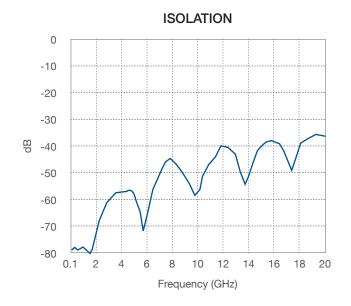




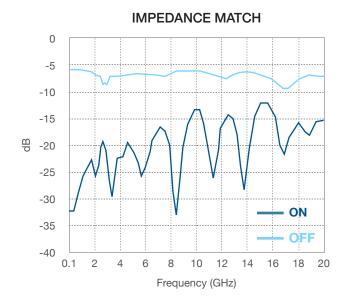


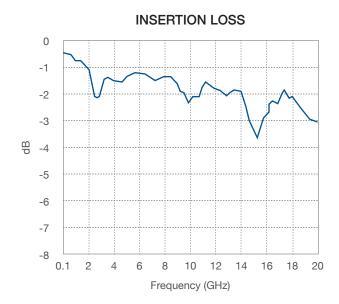
# PERFORMANCE SPECIFICATIONS<sup>1</sup>

Frequency Range	100 MHz to 20 GHz
Insertion Loss	
0.1 - 6 GHz 6 - 13 GHz 13 - 20 GHz Isolation	2.0 dB 2.3 dB 2.6 dB
0.1 - 6 GHz 6 - 13 GHz 13 - 20 GHz <b>Return Loss</b>	50 dB 37 dB 28 dB
0.1 - 6 GHz 6 - 13 GHz 13 - 20 GHz <b>IP3 @ 2 GHz</b>	15 dB 10 dB 10 dB +60 dBm
Switching Speed	50 nS
Lifecycle	10 <sup>9</sup> Switches
Maximum Input Signal	30 dBm



<sup>1.</sup> All provided specifications denote typical performance



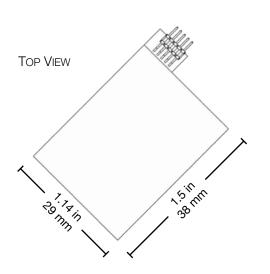


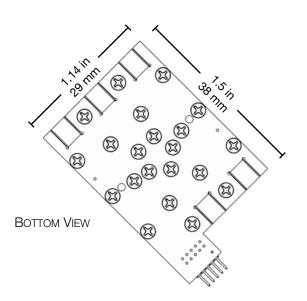


# **CONNECTOR TYPES**

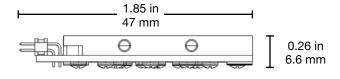
RF Ports	SMP Male; Limited Detent
DC/Control	10-pin 2x5

# PHYSICAL DIMENSIONS





SIDE VIEW



ALL PRODUCT, PRODUCT SPECIFICATIONS, AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE PERFORMANCE, FUNCTION, DESIGN, OR OTHERWISE. The information in this publication is to the best of our knowledge, accurate at the date of publication.