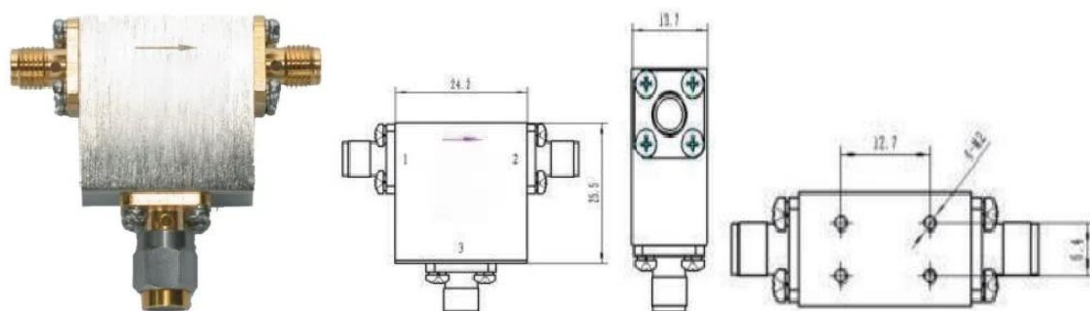




## Single-Stage Cryogenic Circulator

### CIC-C4\_8A



#### Product Introduction

Cryogenic Circulator features low insertion loss and high isolation characteristics, improving matching between ultra-low temperature microwave link components and enhancing isolation between front-end and rear-end devices. Suitable for deep space exploration, radio astronomy, quantum computing and wireless communications. The CIC-C4\_8A cryogenic circulator operates at 4K temperature range with wide bandwidth and high isolation characteristics. It can also be cascaded to improve isolation in microwave links and reduce reflection effects from output ports to input ports.

#### Key Features

<b>RF Bandwidth</b>	4GHz~8GHz
<b>Insertion loss</b>	≤0.2dB
<b>VSWR</b>	≤1.3
<b>Isolation</b>	≥20dB
<b>Operating temperature range</b>	4K±1K
<b>Storage Temp.</b>	-55℃~+85℃
<b>RF port</b>	SMA-K Coaxial Connector
<b>Housing</b>	Gold-Plated Oxygen-Free Copper
<b>Shielding layer</b>	Nickel-Plated
<b>Dimensions</b>	24.2mmx25.5mmx13.7mm(excluding connectors)
<b>Weight</b>	≤75g

- (1) Default unit for dimensions: millimeter (mm)/degree (°); Unless otherwise specified, default tolerances are:  $x\pm 1.0/x\pm 0.50$  for dimensions,  $\pm 1^\circ$  for angles, and  $\pm 0.3$  for holes;
- (2) Dimensions, interfaces and operating temperature ranges can be customized according to customer requirements.