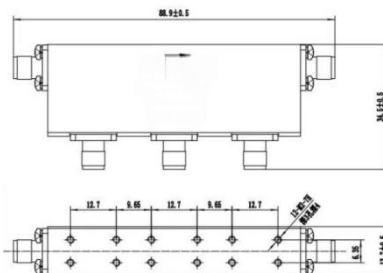




Three-Stage Cryogenic Circulator

CIC3-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 CIC3-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

RF Bandwidth	4GHz~8GHz
Insertion loss	≤0.6dB
VSWR	≤1.3
Isolation	≥60dB
Operating temperature range	4K±1K
Storage Temp.	-55℃~+85℃
RF port	SMA-K Coaxial Connector
Housing	Gold-Plated Oxygen-Free Copper
Shielding layer	Nickel-Plated
Dimensions	≤47mmx25.5mmx13.7mm(excluding connectors)
Weight	≤150g

- (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 ± 0.3 for holes;
- (2) Dimensions, interfaces and operating temperature ranges can be customized according to customer requirements.