SMA-K Diplexer

Use COM as the shared RF connection. Signals in DC–2000 MHz follow the COM–L path, and signals in 3000–18000 MHz follow the COM–H path.

Each branch provides more than 60 dB of rejection over the specified passband of the other branch.

RF Performance

Parameter	Value
Common RF Port	COM
Passband L	DC–2000 MHz
Passband H	3000–18000 MHz
Insertion Loss	<1.5 dB
Passband Ripple	<1.5 dB
VSWR	<2.0:1
Reverse Isolation	>6.0 dBc
Stopband Rejection L	>60 dB (3000–18000 MHz)
Stopband Rejection H	>60 dB (DC–2000 MHz)

Design Ratings

Guaranteed by design

Parameter	Value
CW Power Handling	5 W CW
Operating Temperature	−40–+70 °C
Storage Temperature	−55–+85 °C

Mechanical Specifications

Parameter	Value
RF Interface	SMA-K (Guaranteed by design)
Surface Finish	Black paint (Guaranteed by design)
Housing Dimensions	42 × 42 × 10 mm
General Outline Tolerance	±0.3 mm
Threaded Through Mounting Holes	4 × M2.5
Mounting Hole Centre Spacing	37 × 37 mm

Installation and Integration

Mount the module securely and bond it to the system ground. Choose cables and mating connectors for impedance matching, typically at 50 Ω. Provide heat dissipation in higher-power installations.

Document notice

Specifications are subject to revision. Before design release, confirm the current document revision and product-specific requirements with LCRF. The approved quotation and order documentation define the supplied configuration.