SMA-K Diplexer

At +25 °C, the crossover is 1800 MHz ±5%, with crossover loss <6.0 dB and insertion loss <1.35 dB.

RF Performance

Parameter	Value
Common RF Port	COM
Passband L	1100–1600 MHz
Passband H	2000–18000 MHz
Crossover Frequency [1]	1800 MHz ±5%
Insertion Loss at Crossover [1]	<6.0 dB
Insertion Loss [1]	<1.35 dB
Passband Ripple	<1.0 dB
VSWR	<2.0:1
Out-of-band rejection L [2]	>60 dB
Out-of-band rejection L [3]	>60 dB
Out-of-band rejection H [4]	>60 dB

[1] +25 °C
[2] DC–500 MHz
[3] 2300–18000 MHz
[4] DC–1500 MHz

Design ratings Guaranteed by design

Parameter	Value
CW Power Handling	5 W CW
Operating Temperature	–20–+60 °C

Mechanical Specifications

Parameter	Value
RF Interface	SMA-K (Guaranteed by design)
Surface Finish	Black paint (Guaranteed by design)
Housing Dimensions	57 × 66 × 10 mm
Mounting holes	4 × Ø2.2 mm
Mounting Hole Centre Spacing	52 × 61 mm
General Outline Tolerance	±0.3 mm

Mechanical Specifications

Parameter	Value
Common connector axis offset from housing end edge	15.2 mm
Branch Connector Center Spacing	35.6 mm
RF connector axis height above housing base	5 mm

Installation and Integration

Protect the unit from vibration and shock, bond it to system ground, and select matched cables and connectors for the RF ports. The usual matching impedance is 50 Ω. Provide heat dissipation in high-power installations to protect performance and hardware.

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.