SMA-K Receive/Transmit Duplexer

The connector opposite RX and TX is the common RF port. Each passband has a maximum loss of 0.8 dB, with ≥70 dB rejection on RX over 1800–3000 MHz.

RF Performance

Parameter	Value
Common port	Connector opposite RX and TX
Passband RX	600–1000 MHz
Passband TX	1600–3000 MHz
Passband Insertion Loss RX	≤0.8 dB
Passband Insertion Loss TX	≤0.8 dB
VSWR	≤1.5
Out-of-band rejection RX	≥70 dB (1800–3000 MHz)
Out-of-band rejection TX	≥70 dB (DC–1000 MHz)

Design ratings Guaranteed by design

Parameter	Value
Power Handling	50 W
Operating Temperature	−40–+70 °C
Storage Temperature	−55–+85 °C

Mechanical Specifications

Parameter	Value
RF Interface	SMA-K
RF Impedance	50 Ω
Connector material	Stainless steel
Surface finish	Silver plating
Housing material	6061 aluminum
Quality grade	Industrial grade
Housing Dimensions	50 × 40 × 12 mm
Ground	Housing
Threaded Through Mounting Holes	4 × M2
Mounting Hole Centre Spacing	44 × 34 mm

Installation and Integration

Clean the surface without immersing the unit in cleaning solution. Consult LCRF before ordering for applications in which the entire unit will be heated above 125 °C.

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.