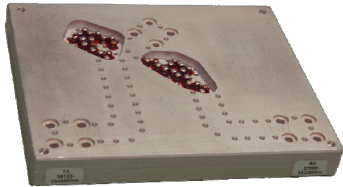


WAVEGUIDE DIPLEXER: 81382

38GHz Diplexer



Kaelus offers this product which has been developed to meet the specification as detailed. The design features and performance can be customized to meet most agreed specifications within the usual RF/ microwave constraints.

ALLRIZON

ADVANTAGE

PRODUCT FEATURES

- Patented approach
- High isolation between Tx/Rx
- One body multi frequency options
- All waveguide ports

TECHNICAL SPECIFICATIONS |

PARAMETERS	SPECIFICATION
RX Pass Band	36990 MHz - 37406 MHz
Insertion Loss from RX Port to Common Port	≤ 2.0 dB (loss of adaptors excluded)
RX Amplitude Flatness Linear	≤ 0.2 dB > 50 MHz
RX Amplitude Flatness Parabolic	≤ 0.1 dB > 50 MHz
RX Group Delay Linear	≤ 0.7 ns > 50 MHz
RX Group Delay Parabolic	≤ 0.1 ns > 50 MHz
Common Port Return Loss for RX	≥ 16 dB
RX Input Return Loss	≥ 16 dB
Rejection of Port RX Pass Band Frequencies at Port TX	≥ 70 dB 38250 MHz - 38666 MHz
	≥ 75 dB 27198 MHz - 35433 MHz
RX Rejection at LO Frequencies	≥ 50 dB 35433 MHz - 36468 MHz
	≥ 50 dB 37928 MHz - 38962 MHz
	≥ 75 dB 38962 MHz - 47198 MHz

TECHNICAL SPECIFICATIONS CONTINUED |

PARAMETERS	SPECIFICATION
TX Pass Band	38250 MHz - 38666 MHz
Insertion Loss from TX Port to Common Port	≤ 2.0 dB (loss of adaptors excluded)
TX Amplitude Flatness Linear	≤ 0.2 dB
TX Amplitude Flatness Parabolic	≤ 0.1 dB > 50 MHz
TX Group Delay Linear	≤ 0.7 ns > 50 MHz
TX Group Delay Parabolic	≤ 0.1 ns > 50 MHz
Common Port Return Loss for TX	≥ 16 dB > 50 MHz
TX Input Return Loss	≥ 16 dB
Rejection of Port TX Pass Band Frequencies at Port RX	≥ 70 dB 36990 MHz - 37406 MHz
	≥ 75 dB 28458 MHz - 36693 MHz
TX Rejection at LO Frequencies	≥ 50 dB 36693 MHz - 37728 MHz
	≥ 50 dB 39188 MHz - 40222 MHz
	≥ 75 dB 40222 MHz - 48458 MHz
Mutual Region Isolation	> 50 dB Guard Band
Dimensions	138mm*115mm*15mm (max)