3-path filter bank

Choose between the three CH passbands by checking the occupied signal bandwidth and the corresponding rejection limits. Allow for the 27 × 25 mm housing and use the 24.5 × 22.5 mm mounting hole pattern when laying out the assembly.

RF Performance

Parameter	Value
Passband CH1	65–75 MHz
Passband CH2	60–80 MHz
Passband CH3	50–90 MHz
Passband Insertion Loss · CH1	≤ 3 dB
Passband Insertion Loss · CH2	≤ 2.5 dB
Passband Insertion Loss · CH3	≤ 2 dB
Passband ripple	≤ 1 dB
VSWR	≤ 1.5
Out-of-band rejection CH1	≥ 50 dB (DC–52.5 MHz)
Out-of-band rejection CH1	≥ 50 dB (87.5–200 MHz)
Out-of-band rejection CH2	≥ 50 dB (DC–48 MHz)
Out-of-band rejection CH2	≥ 50 dB (92–200 MHz)
Out-of-band rejection CH3	≥ 50 dB (DC–32 MHz)
Out-of-band rejection CH3	≥ 50 dB (108–200 MHz)

Temperature and power

Guaranteed by design

Parameter	Value
Power Handling	2 W
Operating Temperature	−45…+75 °C
Storage Temperature	−55…+85 °C

RF path connections

Parameter	Value
Independent RF paths	3
RF terminals	6
CH1	One pair of opposing RF pins

RF path connections

Parameter	Value
CH2	One pair of opposing RF pins
CH3	One pair of opposing RF pins

Mechanical Specifications

Parameter	Value
RF Interface	Ø0.38 mm round microstrip pins
RF Impedance	50 Ω
Surface finish	Silver plated
Housing material	6061 aluminum
Housing dimensions	27 (+0/−0.2) × 25 (+0/−0.2) × 7 (+0/−0.2) mm (Excludes RF pin protrusions)
Mounting hole-center spacing	24.5 ±0.1 × 22.5 ±0.1 mm
Threaded mounting holes	4 × M1.6
Mounting thread depth	4 mm
Spacing of adjacent RF pins on one side	8.5 mm
RF pin axis offset from indicated body edge	2 mm

Installation and handling

Clean the product surface without immersing the filter in cleaning liquid. Consult before ordering if the temperature of the complete unit will exceed 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.