Triplexer

When 942.5 MHz is the blocker of concern, select the path against its specified attenuation at that frequency. The f2 path also needs a different loss budget from f1 and f3, with a 6.5 dB maximum in its own passband.

RF Performance

Parameter	Value
Passband B1 [1]	35–55 MHz
Passband B2 [2]	887.5–907.5 MHz
Passband B3 [3]	1740–1940 MHz
Passband Insertion Loss B1 [1]	≤ 1.5 dB
Passband Insertion Loss B2 [2]	≤ 6.5 dB
Passband Insertion Loss B3 [3]	≤ 2.5 dB
VSWR	≤ 1.5
Out-of-band rejection B1 [4]	≥ 80 dB
Out-of-band rejection B2 [4]	≥ 60 dB
Out-of-band rejection B3 [4]	≥ 80 dB

[1] f1
[2] f2
[3] f3
[4] 942.5 MHz

Design ratings Guaranteed by design

Parameter	Value
Power Handling	2 W
Operating Temperature	−40–+70 °C
Storage Temperature	−55–+85 °C

Mechanical and Interface Specifications

Parameter	Value
RF Interface	SMA-F
RF Impedance	50 Ω
Surface finish	Black
Common port	ANT
Branch port markings	f1, f2, f3

Mechanical and Interface Specifications

Parameter	Value
B1	f1
B2	f2
B3	f3
Housing dimensions	46 × 40 × 10 mm (Excludes protruding RF connectors.)
Mounting pattern	four M2 through holes (43 × 32 mm)
Quality grade	Industrial grade

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.