Band-stop Filter · 777–787 MHz

The DC–747 MHz and 817–3300 MHz passbands have maximum 2 dB loss, around a minimum 50 dB rejection band. Power 50 W and operation at −10...+50 °C are design guarantees.

RF Performance

Parameter	Value
Stopband	777–787 MHz
Stopband Rejection	≥50 dB (777–787 MHz)
Lower Passband	DC–747 MHz
Upper Passband	817–3300 MHz
Passband Insertion Loss	≤2 dB (DC–747 MHz; 817–3300 MHz)
Passband VSWR	≤1.8 (DC–747 MHz; 817–3300 MHz)

Design Ratings

Parameter	Value
Power Handling	50 W (Guaranteed by design)
Operating Temperature	−10...+50 °C (Guaranteed by design)

Typical series reference data

Several connector configurations share these typical data. Separate measurements for each configuration are unconfirmed.

Parameter	S12 (dB)	S11 VSWR
725 MHz	-0.26	1.26
747 MHz	-1.66	1.28
757 MHz	-2.76	1.69
767 MHz	-7.94	9.36
777 MHz	-75.04	31.18
778 MHz	-60.06	48.92
780 MHz	-67.65	36.35
782 MHz	-72.48	45.01
783 MHz	-73.46	43.69
785 MHz	-77.78	39.43
787 MHz	-76.87	36.02
797 MHz	-8.54	10.23
807 MHz	-2.96	1.81

Typical series reference data

Several connector configurations share these typical data. Separate measurements for each configuration are unconfirmed.

Parameter	S12 (dB)	S11 VSWR
817 MHz	-1.73	1.36
850 MHz	-0.32	1.55

Mechanical and Interface Specifications

Parameter	Value
RF Connector	SMA-K
Connector Shell Material	304 stainless steel
RF Impedance	50 Ω
Surface Finish	Black baked paint
Body Length	201 mm
Body Width	30 mm
Body Height	18 mm
Longitudinal Mounting Pitch	195 mm
Transverse Mounting Pitch	24 mm
Thread Depth	6 mm
RF axis offset from the lower edge in side view	9 mm
Connector Axis Distance from Body Side	15 mm
Mounting Thread Size	M2.5
Threaded Mounting Hole Count	4

Handling and Installation

The two RF connectors are on opposite ends of the housing. Clean the product surface without immersing the product in cleaning fluid. For conditions in which the overall product temperature exceeds 125 °C, consult LCRF before ordering.

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.