

FTF4834

Monolithic Crystal Filter

Part number: 4834 | Revision: W1 | Date: 25 January 2023



1.0 Main parameters

N°	Characteristics	Symbol	Value	Unit	Note
1.1	Nominal centre frequency	fc	10.7	MHz	
1.2	Number of poles		8		

2.0 Insection loss

N°	Characteristics	Symbol	Min.	Nom.	Max.	Unit	Note
2.1	Insertion Loss	IL			3.5	dB	Measured on smallest attenuation in pass band

3.0 Passband

N°	Characteristics	Symbol	Nom.	Unit	-Δ F _{min}	+Δ F _{max}	Unit	Note
3.1	Bandwidth between 3dB frequencies		3	dB	-15.0	+15.0	kHz	Referred to f _c

4.0 Ripple over

N°	Characteristics	Symbol	Nom.	Unit	-Δ F _{min}	+Δ F _{max}	Unit	Note
4.1	Ripple over		≤2	dB	-10	+10	kHz	Referred to f _c

5.0 Stopband

N°	Characteristics	Symbol	Nom.	Unit	-Δ F _{min}	+Δ F _{max}	Unit	Note
5.1	StopBand 1		≥70	dB	-35	+35	kHz	Referred to f _c
5.2	StopBand 2		≥90	dB			kHz	Referred to f _c (±50 kHz to 500 kHz) Except for spurious responses

6.0 Matching

N°	Characteristics	Symbol	Resistance	Unit	Capacitance	Unit	Note
6.1	Input and output		5600	Ω	-1	pF	

7.0 Temperature range

N°	Characteristics	Symbol	Min.	Nom.	Max.	Unit	Note
7.1	Operating	OTR	-40		80	°C	
7.2	Storage	STR	-55		105	°C	

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8.0 Package and marking

N°	Characteristics	Specifications	Model outline drawing
8.1	Package type	KF20 (23.5 x 16.9 mm)	
8.2	Package height	10.7 mm max.	
8.3	Pin length	4.0 mm min.	
8.4	Marking	Line 1: RAKON YYWW Line 2: FTF4834/10.7MHz	

Unit: mm

9.0 Test circuit

N°	Test circuit diagram
9.1	

10.0 Specification History

Revision	Change notes	Date
W0	Preliminary Datasheet creation	Jan, 17 th 2013
W1	Re-branding Rakon to RakonXpress	Jan, 25 th 2023