

FTF4827

Monolithic Crystal Filter

Part number: 4827 | 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		6		

2.0 Insection loss

N°	Characteristics	Symbol	Min.	Nom.	Max.	Unit	Note
2.1	Insertion Loss (IL)	IL			4.0	dB	Measured on smallest attenuation in passband

3.0 Passband

N°	Characteristics	Symbol	Nom.	Unit	-Δ F _{min}	+Δ F _{max}	Unit	Note
3.1	Bandwidth between 3dB frequencies		3	dB	-25	+25	kHz	

4.0 Ripple over

N°	Characteristics	Symbol	Nom.	Unit	-Δ F _{min}	+Δ F _{max}	Unit	Note
4.1	Ripple over		≤1.5	dB	-17.5	+17.5	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		≥60	dB	-80	+80	kHz	Referred to f _c /except spurious
5.2	StopBand 2		≥80	dB	-120	+120	kHz	Referred to f _c /except spurious
5.3	Alternate attenuation		≥80	dB				Except spurious

6.0 Matching

N°	Characteristics	Symbol	Resistance	Unit	Capacitance	Unit	Note
6.1	Input and output		50	Ω	0	pF	

7.0 Temperature range

N°	Characteristics	Symbol	Min.	Nom.	Max.	Unit	Note
7.1	Operating	OTR	-20		70	°C	
7.2	Storage	STR	-40		85	°C	

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8.0 Package and marking

N°	Characteristics	Specifications	Model outline drawing
8.1	Package type	KF17 (38.4 x 18.2 mm)	
8.2	Package height	13.0 mm max	
8.3	Pin length	3.6 mm max	
8.4	Marking	Line 1: RAKON YYWW Line 2: FTF4827/10.7MHz	

Unit: mm

9.0 Test circuit

N°	Test circuit diagram
11.1	

10.0 Specification History

Revision	Change notes	Date
W0	Preliminary Datasheet creation	Oct, 4 th 2012
W1	Re-branding Rakon to RakonXpress	Jan, 25 nd 2023