

# FTF4875

## Monolithic Crystal Filter

Part number: 4875 | Revision: W1 | Date: 25 January 2023



### 1.0 Main parameters

N°	Characteristics	Symbol	Value	Unit	Note
1.1	Nominal frequency	Fn	21.4	MHz	
1.3	Number of poles		6		

### 2.0 Insertion loss

N°	Characteristics	Symbol	Min.	Nom.	Max.	Unit	Note
2.1	Insertion Loss (IL)	IL			9.0	dB	Measured on smallest attenuation in pass band

### 3.0 Passband

N°	Characteristics	Symbol	Nom.	Unit	-Δ F <sub>min</sub>	+Δ F <sub>max</sub>	Unit	Note
3.1	Bandwidth between 3dB frequencies		6	dB	-50	+50	kHz	±10%

### 4.0 Ripple over

N°	Characteristics	Symbol	Nom.	Unit	-Δ F <sub>min</sub>	+Δ F <sub>max</sub>	Unit	Note
4.1	Ripple over		≤1.5	dB	-35	+35	kHz	Referred to f <sub>c</sub>

### 5.0 Stopband

N°	Characteristics	Symbol	Nom.	Unit	-Δ F <sub>min</sub>	+Δ F <sub>max</sub>	Unit	Note
5.1	StopBand 1		≥60	dB	-400	+400	kHz	Referred to f <sub>c</sub>
5.2	Alternate attenuation		≥70	dB				
5.3	Spurious responses		>50	dB	-400	+5000	kHz	Referred to f <sub>c</sub>

### 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	0		60	°C	
7.2	Storage	STR	-55		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 mm max	
8.3	Pin length	3.5 mm max	
8.4	Marking	Line 1: RAKON YYWW Line 2: FTF4875/21.4MHz	

Unit: mm

### 9.0 Test circuit

N°	Test circuit diagram
9.1	

### 10.0 Specification History

Revision	Change notes	Date
W0	Preliminary Datasheet creation	Apr, 19 <sup>th</sup> 2017
W1	Re-branding Rakon to RakonXpress	Jan, 25 <sup>th</sup> 2023