

FTF4860

Monolithic Crystal Filter

Part number: 4860 | Revision: W2 | Date: 24 January 2023



1.0 Main parameters

N°	Characteristics	Symbol	Value	Unit	Note
1.1	Nominal centre frequency	fc	90.0	MHz	3 rd overtone
1.2	Number of poles		4		

2.0 Insection loss

N°	Characteristics	Symbol	Min.	Nom.	Max.	Unit	Note
2.1	Insertion Loss (IL)	IL			7	dB	

3.0 Passband

N°	Characteristics	Symbol	Nom.	Unit	- ΔF_{min}	+ ΔF_{max}	Unit	Note
3.1	Bandwidth between 3dB frequencies		6	dB	-8.0	+8.0	kHz	Referred to f_c

4.0 Ripple over

N°	Characteristics	Symbol	Nom.	Unit	- ΔF_{min}	+ ΔF_{max}	Unit	Note
4.1	Ripple over		≤1.5	dB	-4.5	+4.5		

5.0 Stopband

N°	Characteristics	Symbol	Nom.	Unit	- ΔF_{min}	+ ΔF_{max}	Unit	Note
5.1	StopBand		≥60	dB	-25	+25	kHz	Referred to f_c / except spurious
5.2	Alternate attenuation		≥70	dB				

6.0 Matching

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

7.0 Input level

N°	Characteristics	Symbol	Value	Unit	Note
7.1	Operating		-10	dBm	
7.2	Before destruction		0	dBm	

8.0 Temperature range

N°	Characteristics	Symbol	Min.	Nom.	Max.	Unit	Note
8.1	Operating	OTR	-20		75	°C	
8.2	Storage	STR	-45		85	°C	

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9.0 Package and marking

N°	Characteristics	Specifications	Model outline drawing
10.1	Package type	KF17.11 (40 x 21 x 11 mm)	
10.2	Marking	Line 1: RAKON YYWW Line 2: FTF4860 190.0MHz	

Unit: mm

10.0 Test circuit

N°	Test circuit diagram
11.1	

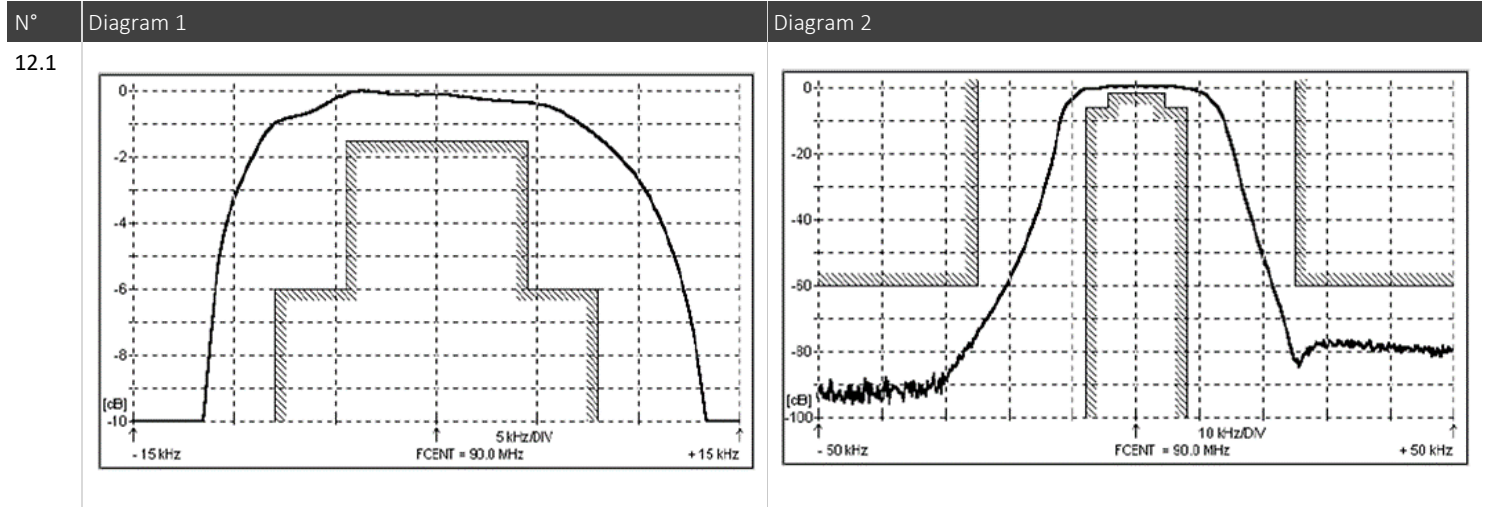
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11.0 Frequency characteristics



12.0 Specification History

Revision	Change notes	Date
W1	Preliminary Datasheet creation	Jun, 09 th 2015
W2	Re-branding Rakon to RakonXpress	Jan, 24 th 2023