

FTF4862

Monolithic Crystal Filter



Part number: 4862 | Revision: W1 | Date: 22 January 2023



1.0 Main parameters

N°	Characteristics	Symbol	Value	Unit	Note
1.1	Nominal centre frequency	fc	90.0	MHz	
1.2	Number of poles		8		fundamental mode

2.0 Insection lose

N°	Characteristics	Symbol	Min.	Nom.	Max.	Unit	Note
2.1	Insertion Loss (IL)	IL			5.0	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 6dB frequencies		6	dB	-40	+40	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		≤1	dB	-26	+26	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		≥40	dB	-72	+72	kHz	Referred to f _c
5.2	StopBand 2		≥60	dB	-90	+90	kHz	Referred to f _c
5.3	Alternate Attenuation		≥70	dB				Except spurious
5.4	Spurious responses		TBD after sampling					

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	-25		75	°C	
7.2	Storage	STR	-40		85	°C	

8.0 Package and marking

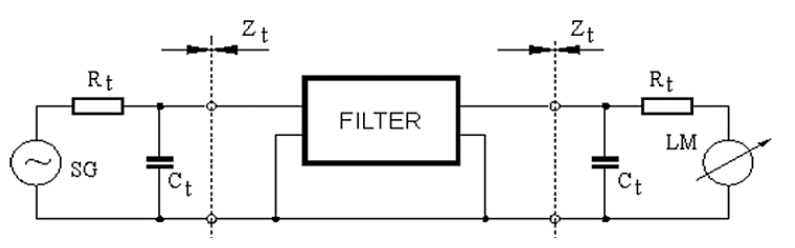
N°	Characteristics	Specifications	Model outline drawing
8.1	Package type	BF53 (25.1 x 14.1 mm)	
8.2	Package height	10.5 mm max	
8.3	Pin length	4.0 mm min.	
8.4	Marking	Line 1: RAKON YYWW Line 2: FTF4862/90.0MHz	

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9.0 Test circuit

N°	Test circuit diagram
9.1	

10.0 Specification History

Revision	Change notes	Date
W0	Preliminary Datasheet creation	Mar, 24 th 2015
W1	Re-branding Rakon to RakonXpress	Jan, 22 nd 2023