Tel: +44 1460 256 100
Fax: +44 1460 256 101
www.golledge.com

Golledge Electronics Ltd
Eaglewood Park, ILMINSTER
Somerset, TA19 9DQ, UK

IF SAW Filter: 109.8MHz (BW=200kHz) (SMD 11.4X5.0mm) Model: TB0791A
Part No: MP01987 Rev No: 1

A. MAXIMUM RATING:

1. Operating Temperature: -10℃ ~ +50℃
2. Storage Temperature: -40℃ ~ +85℃
3. Input Power Level: 10dBm

B. CHARACTERISTICS:

Ambient Temperature: 25℃

Characteristics	Value		
	Min.	Typ.	Max.
Center frequency Fc MHz	-	109.8	-
Minimum Insertion loss IL dB	-	8.2	9.5
Amplitude Ripple (Fc ± 100kHz) dB	-	0.6	1.0
1dB Bandwidth kHz	-	288	-
3dB Bandwidth kHz	200	430	-
Relative Rejection (Reference to Minimum Insertion loss)			
Fc ± 0.614MHz dB	-	16	-
Fc -2.05MHz dB	35	41	-
Fc -1.7 MHz dB	30	39	-
Fc -1.25MHz dB	30	37	
Fc -0.9MHz dB	20	30	
Fc +0.9MHz dB	20	28	
Fc +1.25MHz dB	30	38	
Fc +1.7MHz dB	30	37	
Fc +2.05MHz dB	35	42	
Fc -2.5MHz dB	36	49	
Temp Coefficient ppm/K2	-	-0.036	-

Tel: +44 1460 256 100
Fax: +44 1460 256 101
www.golledge.com

Golledge Electronics Ltd
Eaglewood Park, ILMINSTER
Somerset, TA19 9DQ, UK

C. FREQUENCY CHARACTERISTICS:

1. S21 Response

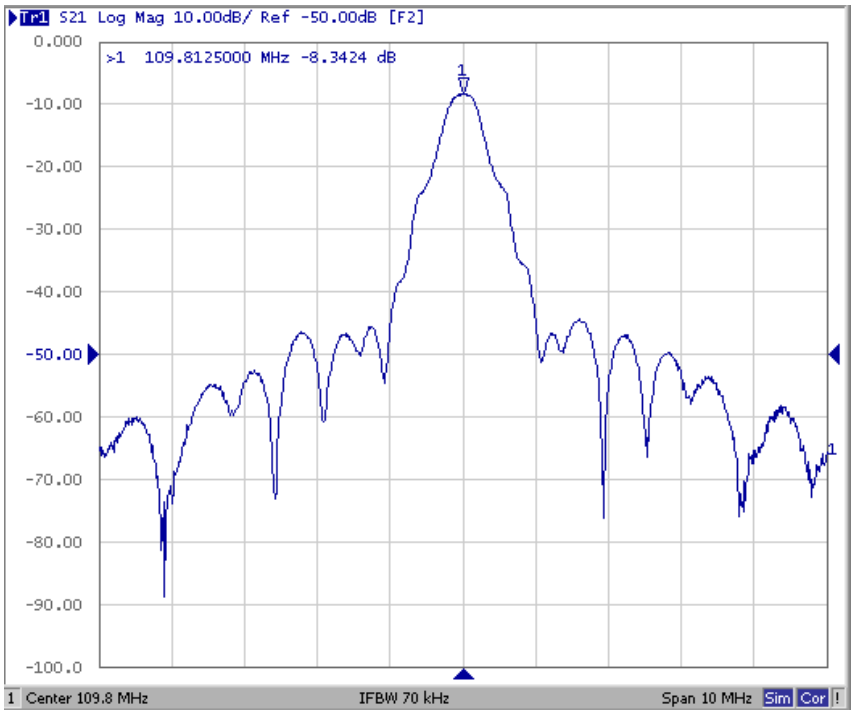


Fig1. Horizontal: 1.0MHz/Div Vertical: 10dB/Div

2. Passband Response and Group Delay Response

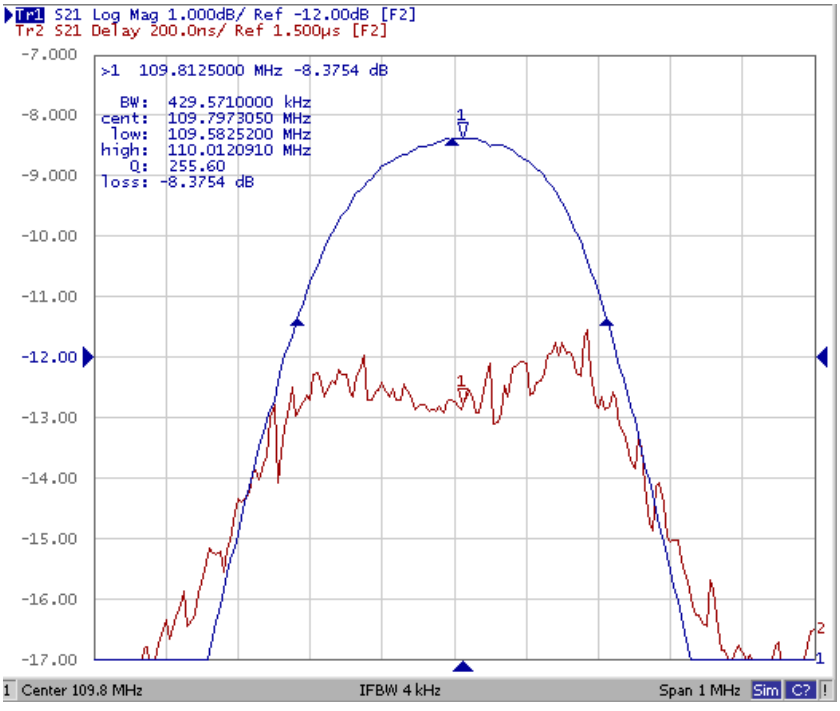


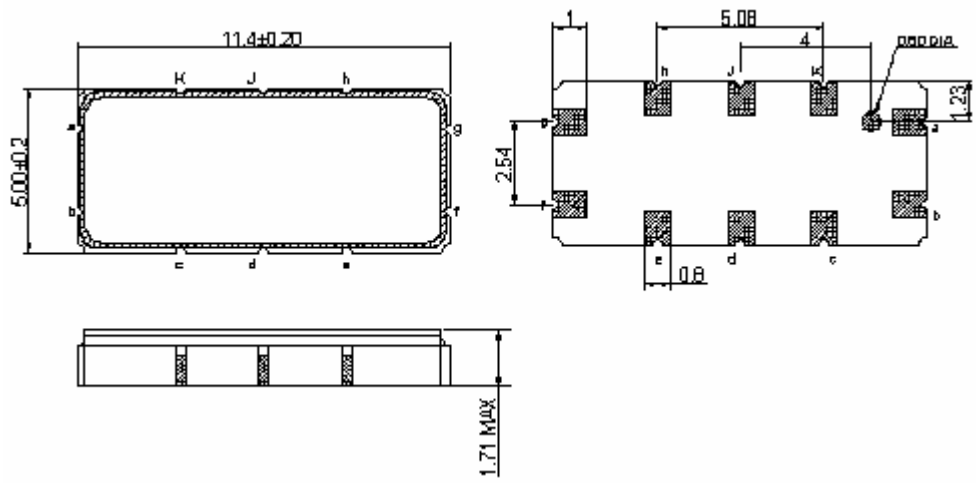
Fig2. Horizontal: 0.1MHz/Div Vertical 1: 1dB/Div, Vertical 2: 200nS/Div

Tel: +44 1460 256 100
Fax: +44 1460 256 101
www.golledge.com

Golledge Electronics Ltd
Eaglewood Park, ILMINSTER
Somerset, TA19 9DQ, UK

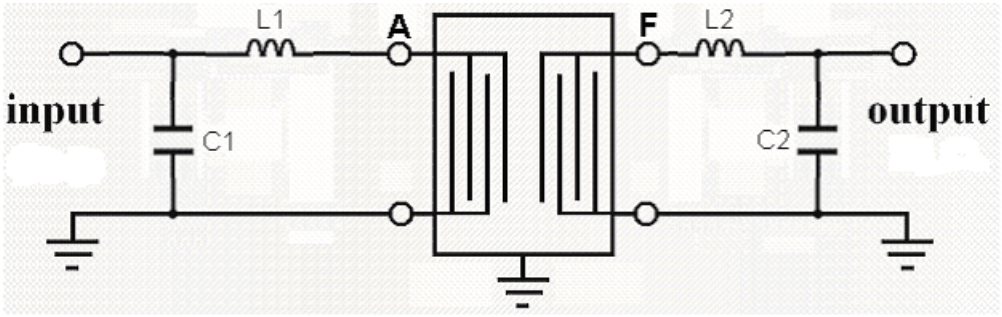
IF SAW Filter: 109.8MHz (BW=200kHz) (SMD 11.4X5.0mm) Model: TB0791A
Part No: MP01987 Rev No: 1

D. OUTLINE DRAWING:



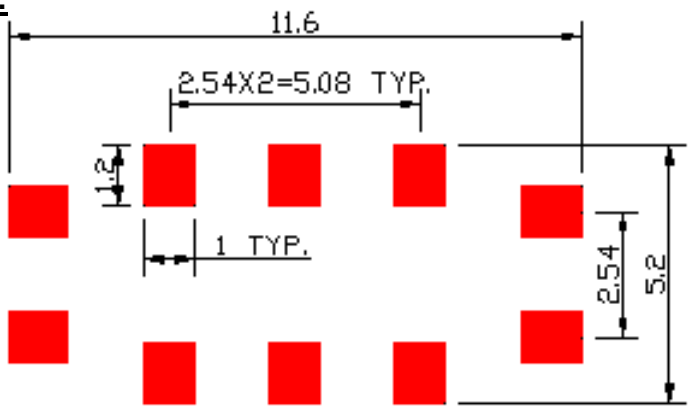
Pin A: RF Input
Pin F: RF Output
Pin B, C, D, E, G, H, J, K: To be ground
Unit: mm

E. MATCHING CIRCUIT:



$Z_{IN} = Z_{OUT}$ = 470Ω, L1 = 270Nh, L2 = 270nH, C1 = 12pF, C2 = 15pF

F. PCB FOOTPRINT:

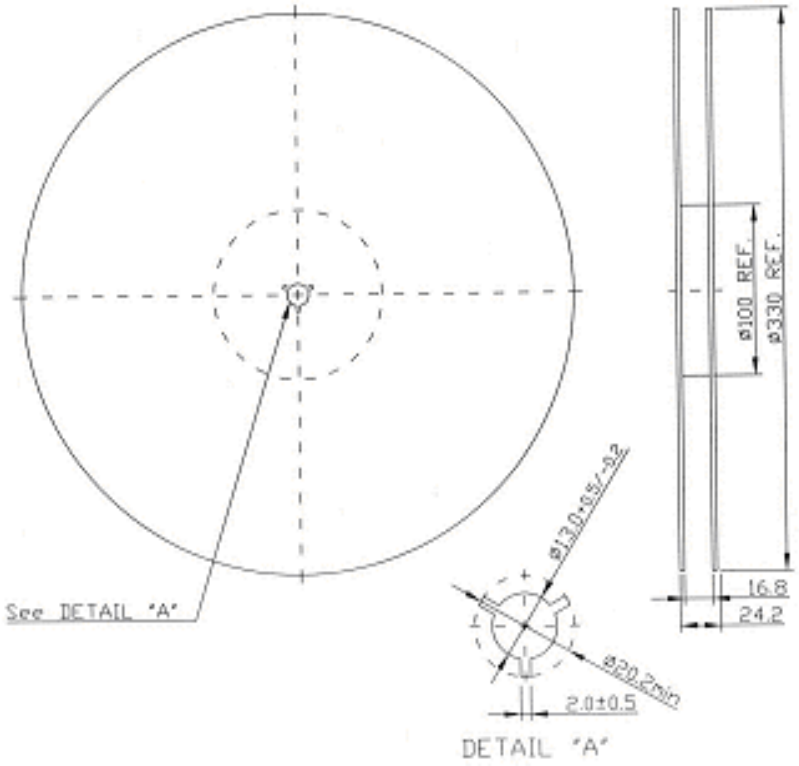


Tel: +44 1460 256 100
Fax: +44 1460 256 101
www.golledge.com

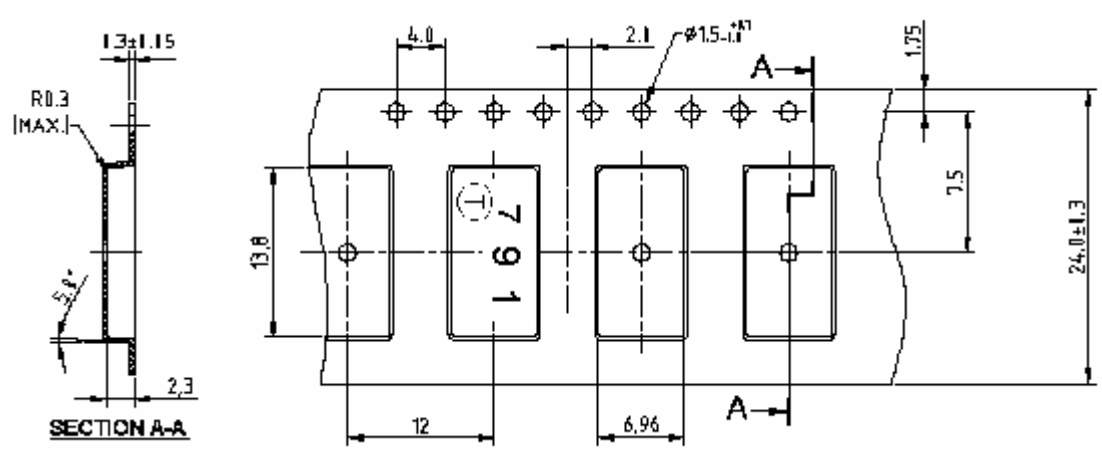
Golledge Electronics Ltd
Eaglewood Park, ILMINSTER
Somerset, TA19 9DQ, UK

G. PACKING:

1. Reel Dimension



2. Tape Dimension



Tel: +44 1460 256 100
Fax: +44 1460 256 101
www.golledge.com

Golledge Electronics Ltd
Eaglewood Park, ILMINSTER
Somerset, TA19 9DQ, UK

H. RECOMMENDED REFLOW PROFILE:

