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

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

SAW Filter 265.50MHz — Model: TB0900A
Part No: MP05887 — Rev No: 1

A. MAXIMUM RATING:

1. Operating temperature range: -30°C to 85°C
2. Storage temperature range: -40°C to 85°C
3. Input Power Level: 10 dBm
4. Maximum DC Voltage: 10V

B. CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	265.5	-
Insertion Loss IL	dB	-	8.1	12.0
-1dB bandwidth	MHz	29	32	-
Passband Ripple Fc ± 11MHz	dB	-	0.5	1.0
Attenuation: (Reference level from Min IL)				
10MHz ~ 185MHz	dB	40	62	-
185MHz ~ 215MHz	dB	40	58	-
310MHz ~ 340MHz	dB	40	50	-
340MHz ~ 1000MHz	dB	40	60	-
Temperature Coefficient	ppm/°C	-	-94	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

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. Narrow band Response: (span 200MHz)

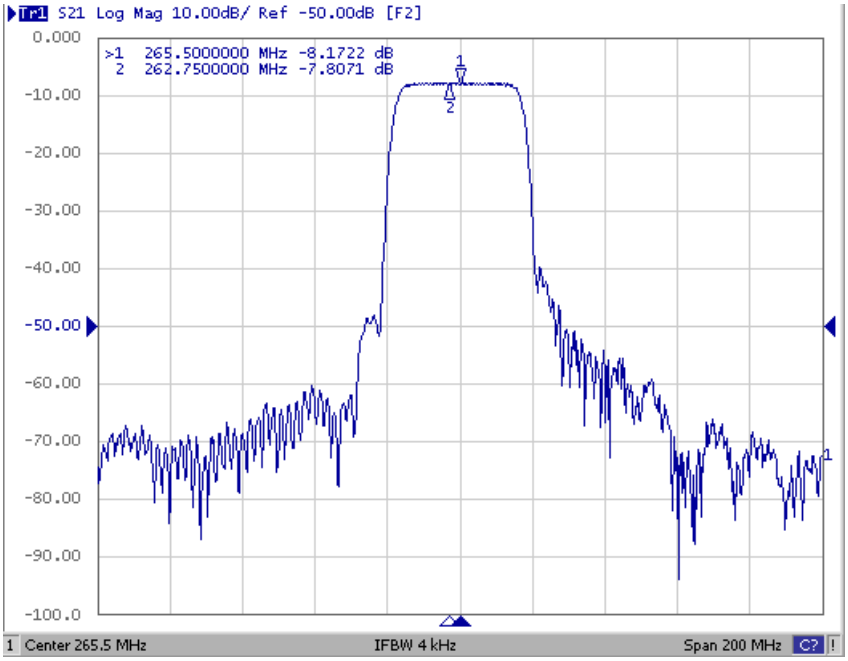


Fig. 1. Horizontal: 20MHz / Div, Vertical: 10Db / Div

2. Pass band Response and Group Time Delay response:

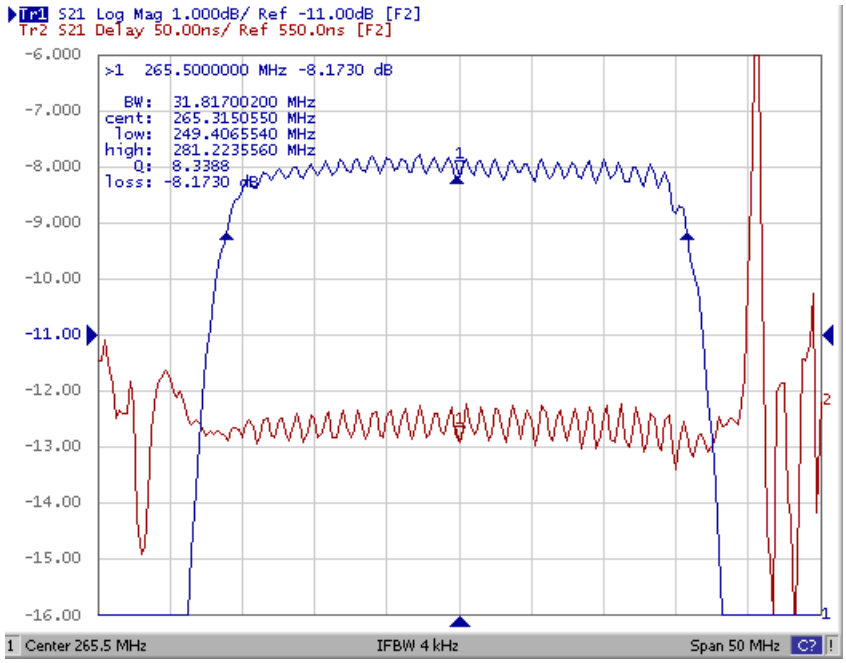
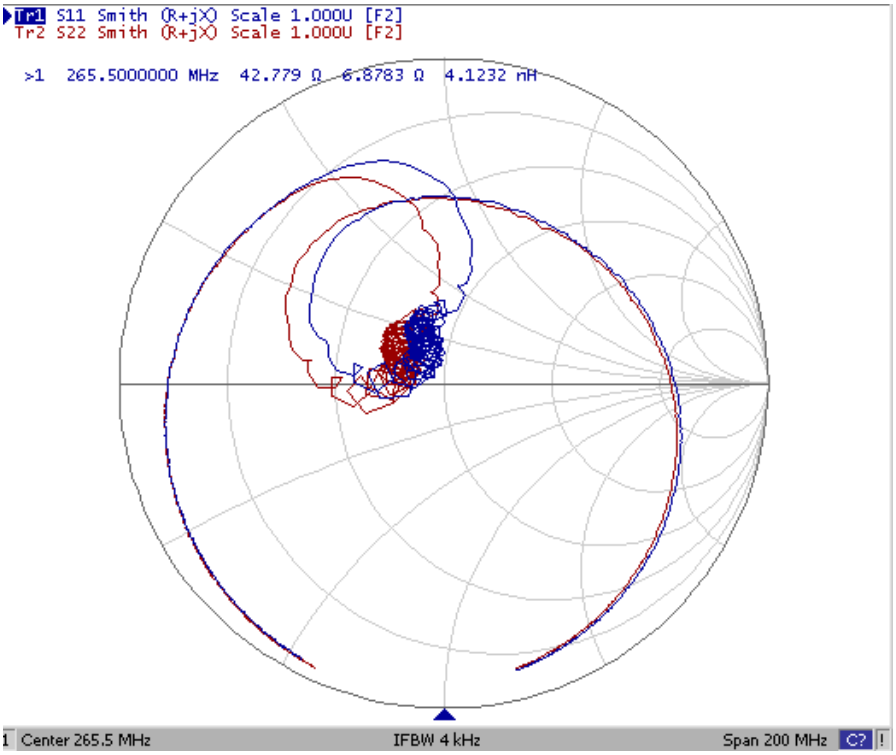


Fig. 2. Horizontal: 5MHz / Div, Vertical: 1dB / Div, Vertical: 50ns / Div

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

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

3. Smith Chart:



4. Wide band Response: (span 1000MHz)

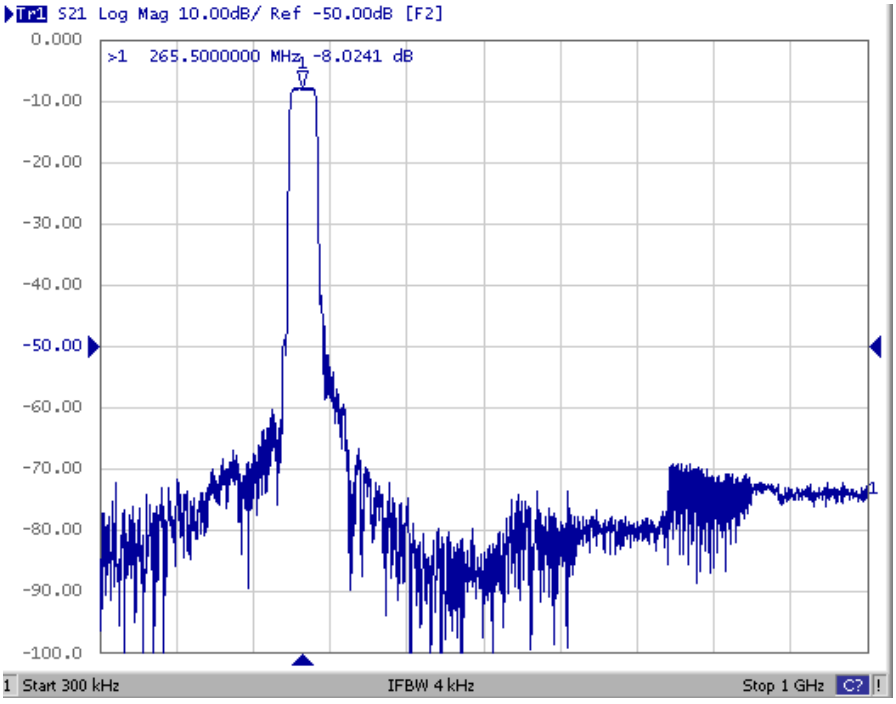
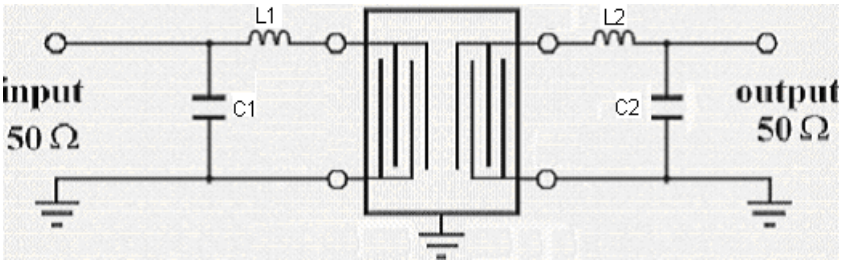


Fig. 4. Horizontal: 100MHz / Div, Vertical: 10dB / Div

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

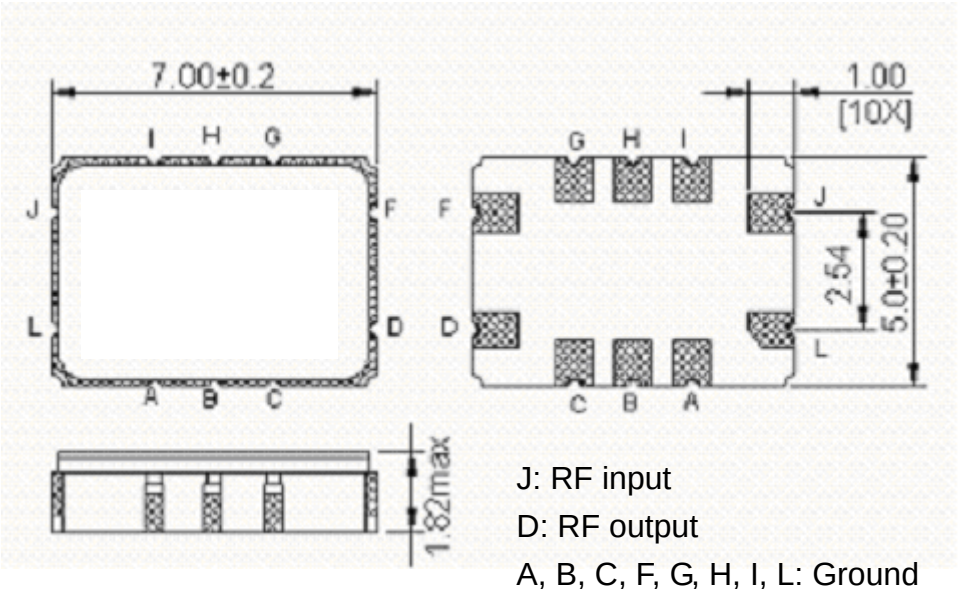
Golledge Electronics Ltd
Eaglewood Park, ILMINSTER
Somerset, TA19 9DQ, UK

D. MATCHING CIRCUIT:



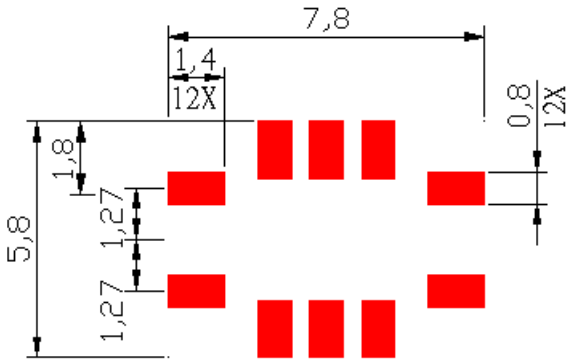
L1 = L2 = 47nH C1 = C2 = 10pF

E. OUTLINE DRAWING:



J: RF input
D: RF output
A, B, C, F, G, H, I, L: Ground
Unit: mm

F. PCB FOOTPRINT:

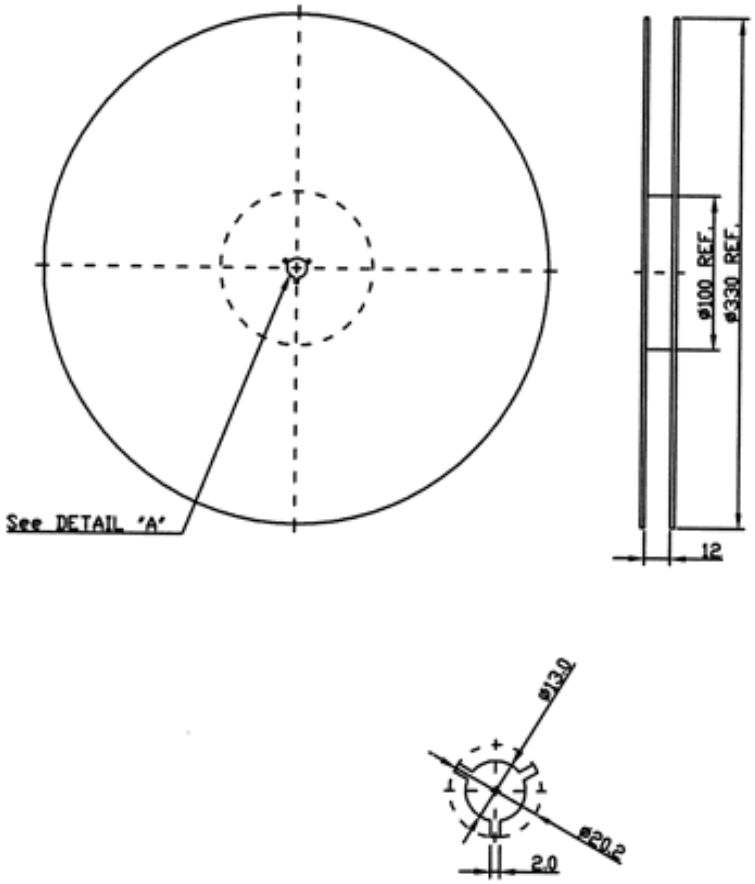


Tel: +44 1460 256 100
Fax: +44 1460 256 101
www.golledge.com

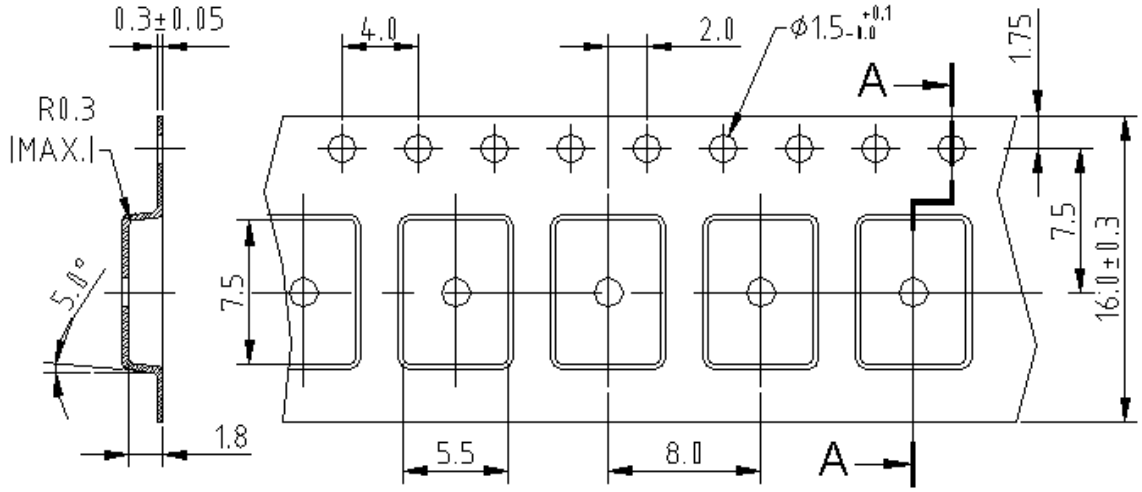
Golledge Electronics Ltd
Eaglewood Park, ILMINSTER
Somerset, TA19 9DQ, UK

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:

