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 902.50MHz — Model: TA0747A
Part No: MA09933 — Rev No: 2

A. MAXIMUM RATING:

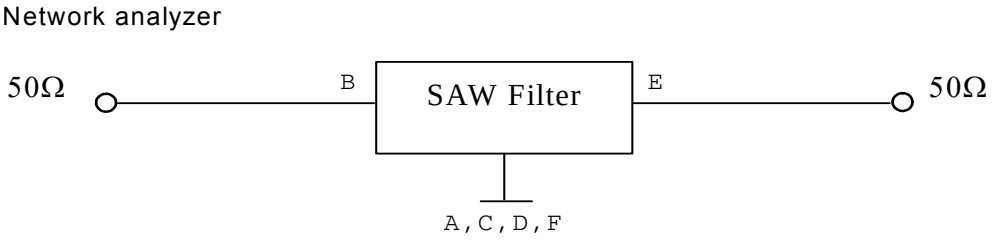
1. Input Power Level: +20dBm
2. DC voltage: 5 V
3. Operating Temperature: -25°C to +75°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

Characteristics	Min.	Typ.	Max.	Note
Center frequency F_C MHz	-	902.5	-	-
Insertion loss (890 ~ 915MHz) IL dB	-	2.9	3.5	-
VSWR (890 ~ 915MHz)	-	1.5	2.3	-
Ripple (890 ~ 915MHz) dB	-	0.5	1.5	-
Attenuation: (Reference level from 0dB)				
0 ~ 845MHz dB	45	51.0	-	-
925 ~ 935MHz dB	5	21.0	-	-
935 ~ 980MHz dB	25	28.0	-	-
980 ~ 1200 MHz dB	50	56.0	-	-
1200 ~ 3000 MHz dB	25	28.0	-	
Impedance at Fc; Input $Z_{IN} = R_{IN} // C_{IN}$	50Ω // 0pF			
Output $Z_{OUT} = R_{OUT} // C_{OUT}$	50Ω // 0pF			

Note: No matching network required for operation at 50Ω

C. MEASUREMENT CIRCUIT:

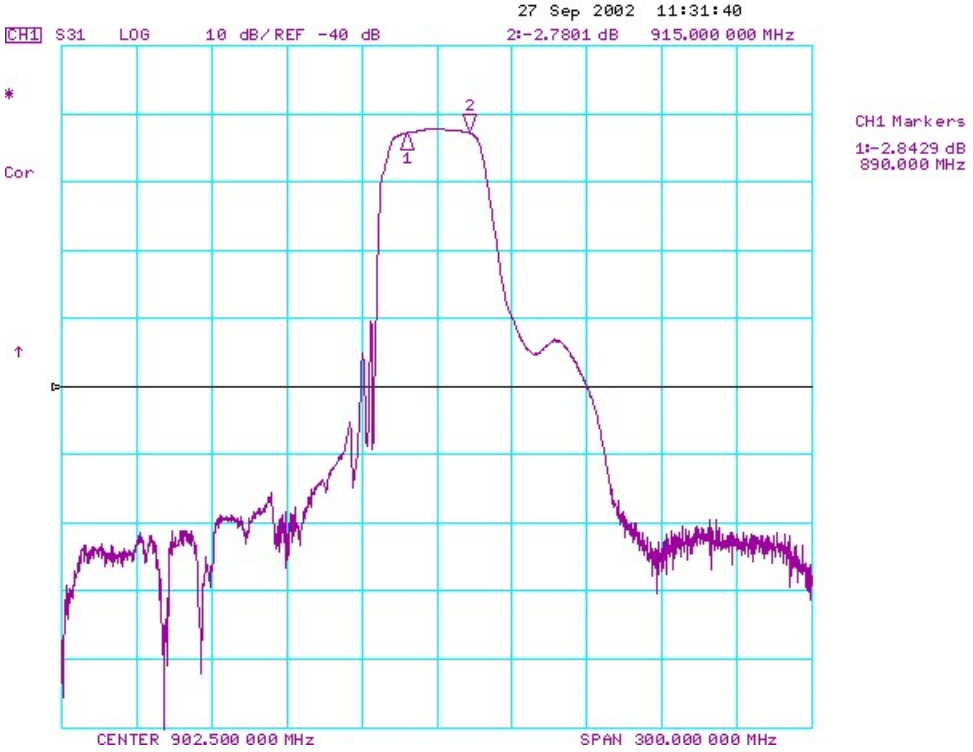


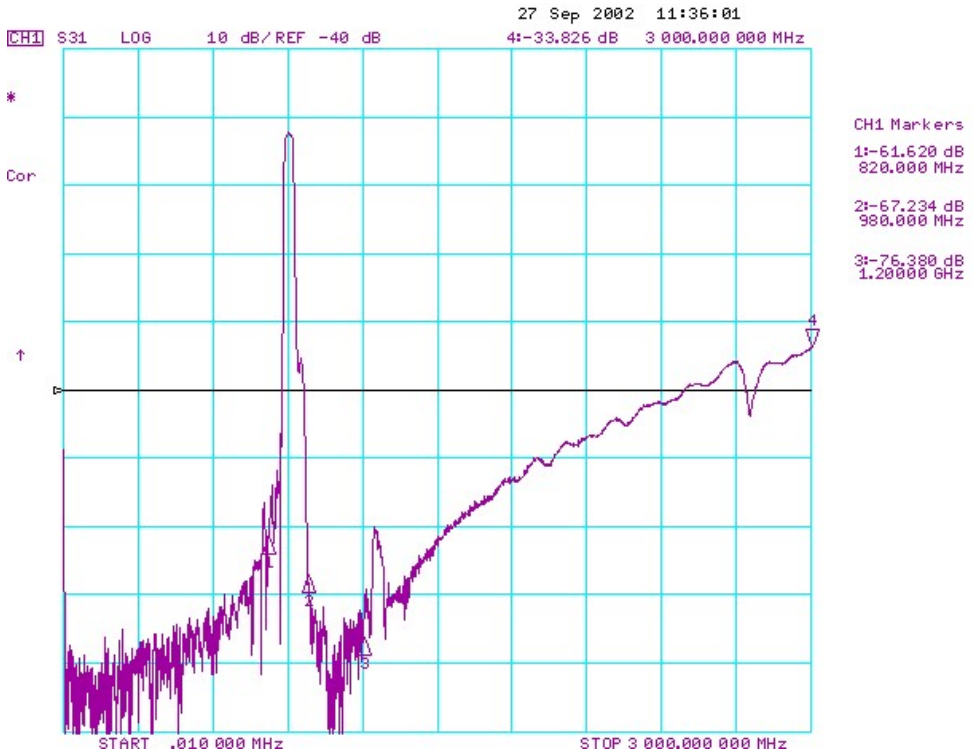
Tel: +44 1460 256 100
Fax: +44 1460 256 101
www.golledge.com

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

D. FREQUENCY CHARACTERISTICS:

1. Wide band of S21



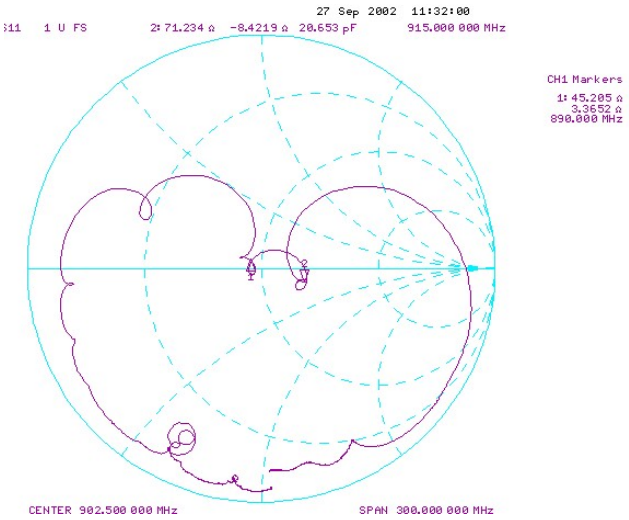


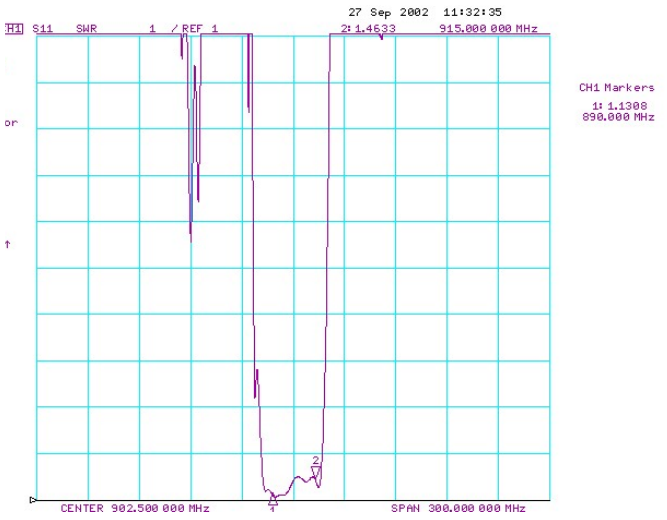
Tel: +44 1460 256 100
Fax: +44 1460 256 101
www.golledge.com

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

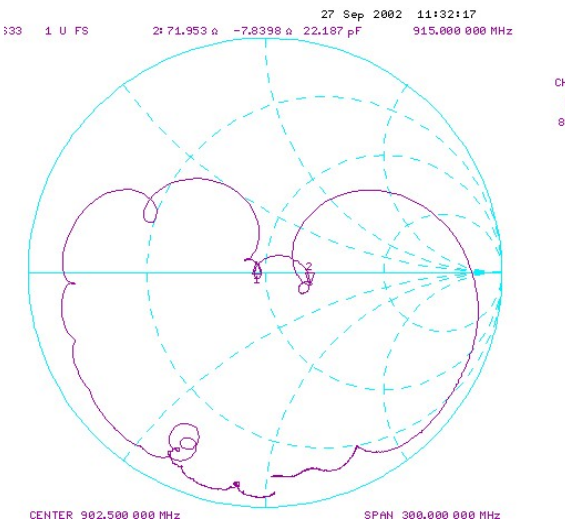
2. Reflections Functions

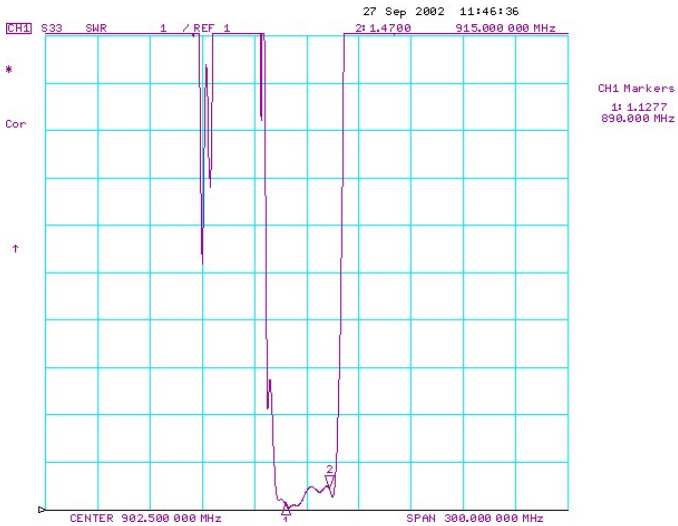
S11





S22

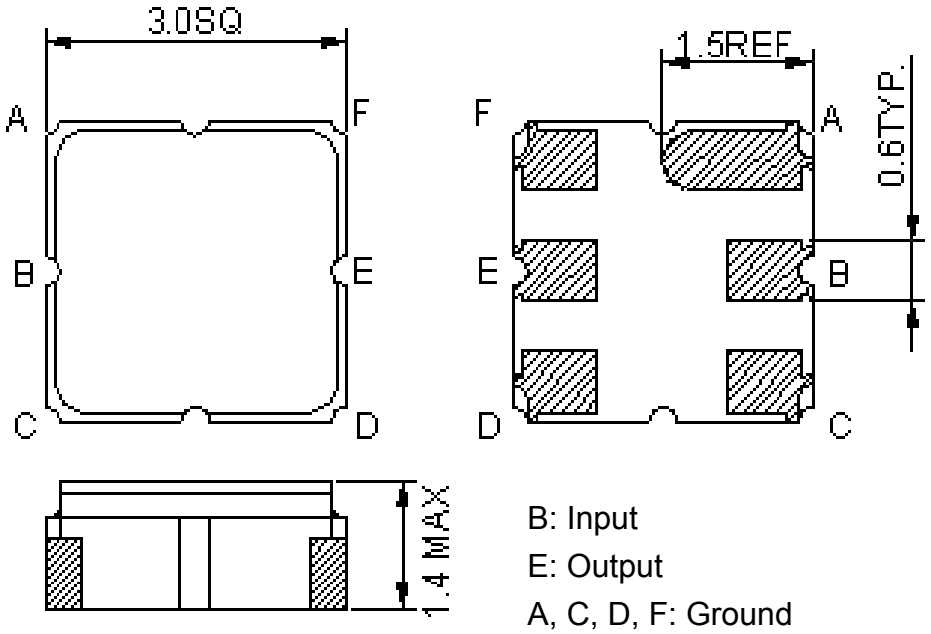




Tel: +44 1460 256 100
Fax: +44 1460 256 101
www.golledge.com

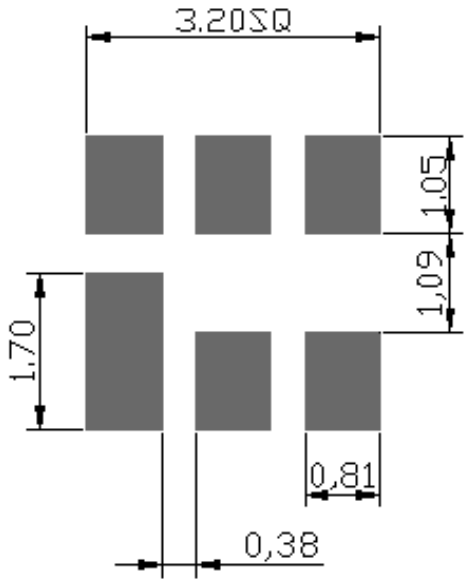
Golledge Electronics Ltd
Eaglewood Park, ILMINSTER
Somerset, TA19 9DQ, UK

E. OUTLINE DRAWING:



B: Input
E: Output
A, C, D, F: Ground
Unit: mm

F. PCB FOOTPRINT:

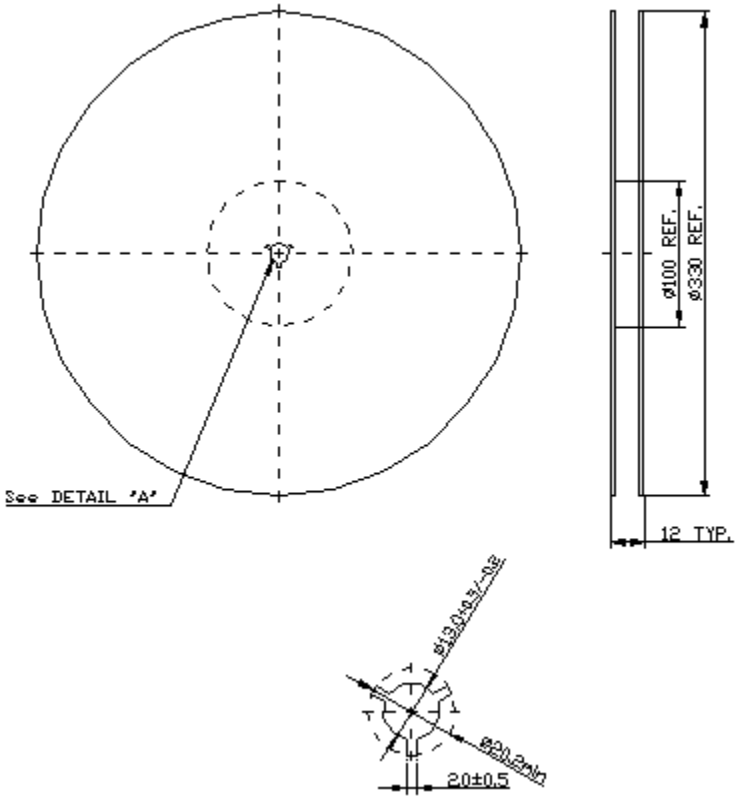


Tel: +44 1460 256 100
Fax: +44 1460 256 101
www.golledge.com

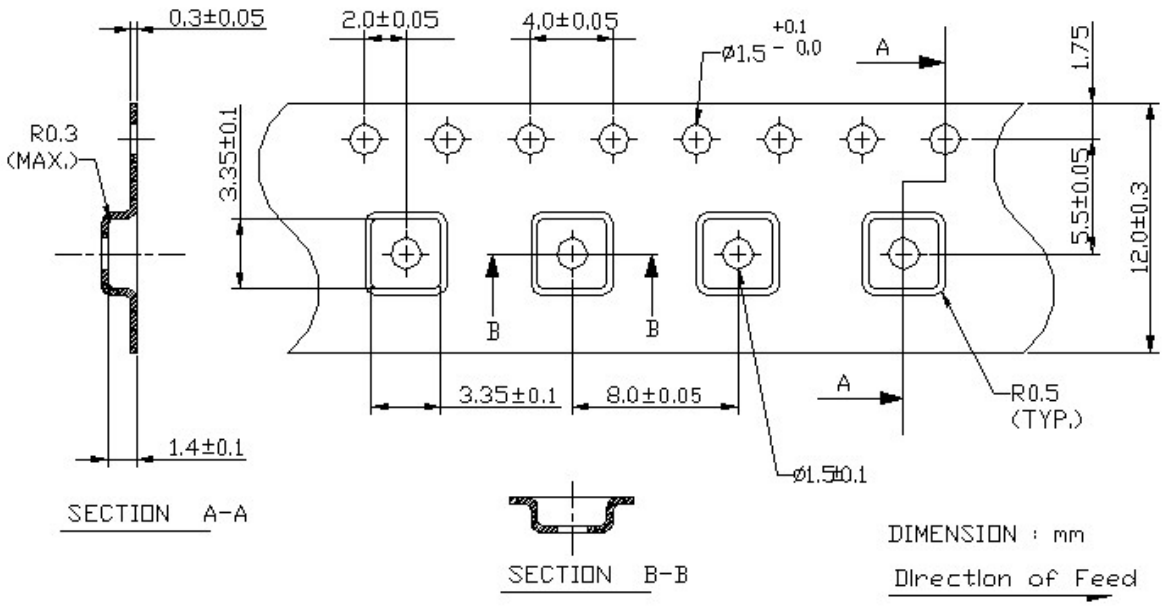
Golledge Electronics Ltd
Eaglewood Park, ILMINSTER
Somerset, TA19 9DQ, UK

G. PACKING:

1. Reel Dimension (Reel Count: 7” = 1000; 13” = 3000)



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:

