

**SAW Filter 2442MHz**  
**Part No: MA05754**

**Model: TA0222A**  
**Rev No: 3**

**A. MAXIMUM RATING:**

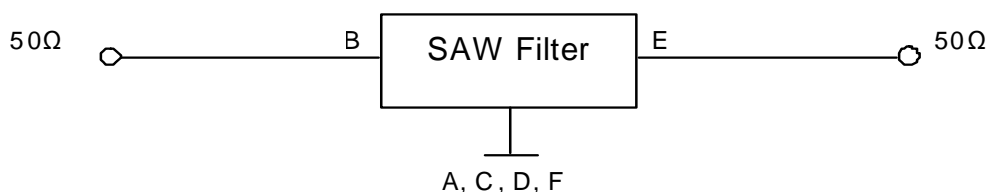
1. Input Power Level: 10dBm
2. DC voltage: 0V
3. Operating Temperature: -20°C to +70°C
4. Storage Temperature: -40°C to +85°C

**B. ELECTRICAL CHARACTERISTICS:**

Item	Min.	Typ.	Max.
Center frequency Fc (MHz)	2437	2442	2447
Minimum Insertion loss (2437 ~ 2447MHz) IL MIN (dB)	-	1.9	6.0
Pass Bandwidth (relative to ILMIN) BW3 (MHz)	55	78	-
Amplitude ripple (Fc ± 12.5MHz) (dB)	-	0.6	2.0
Group Delay Ripple (Fc ± 12.5MHz) (ns)	-	5	20
Group Delay (Fc ± 12.5MHz) (ns)	-	14	50
Attenuation (Reference level from 0dB)			
DC ~ 2300MHz (dB)	37.0	41.0	-
2300 ~ 2367MHz (dB)	20.0	31.0	-
2517 ~ 2650MHz (dB)	40.0	44.0	-
2650 ~ 4000MHz (dB)	25.0	31.0	-
VSWR (Fc ± 12.5MHz)	-	1.6	2.5
Source impedance Z <sub>S</sub> (Ω)	-	50	-
Load impedance Z <sub>L</sub> (Ω)	-	50	-

**C. MEASUREMENT CIRCUIT:**

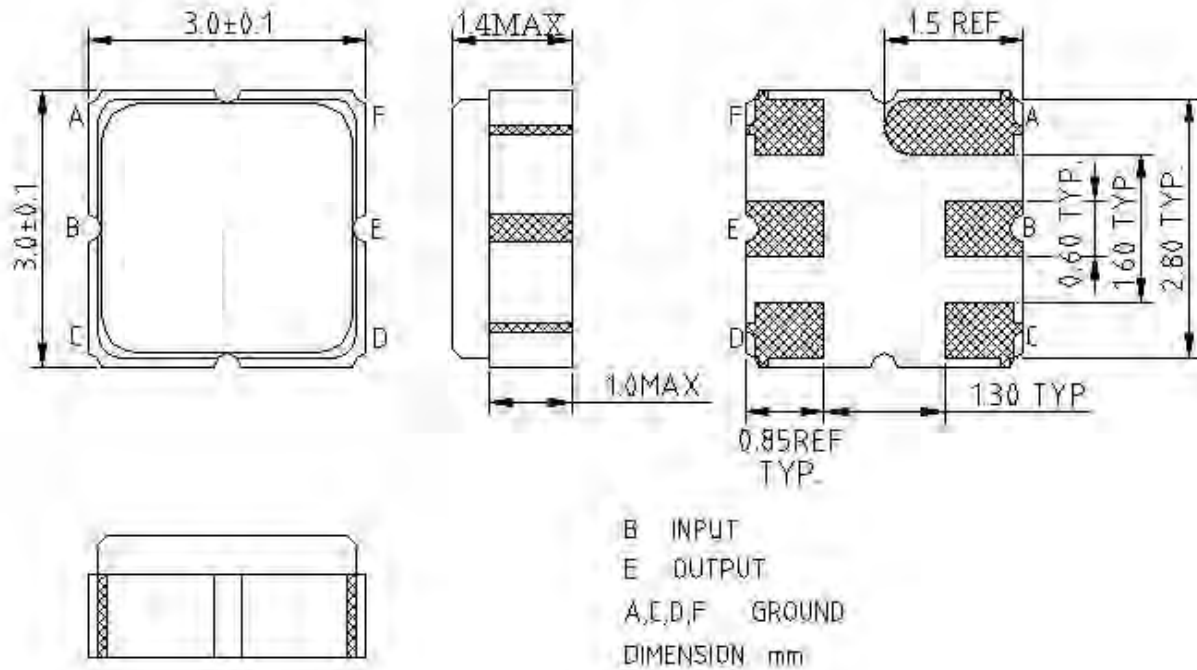
HP Network analyzer



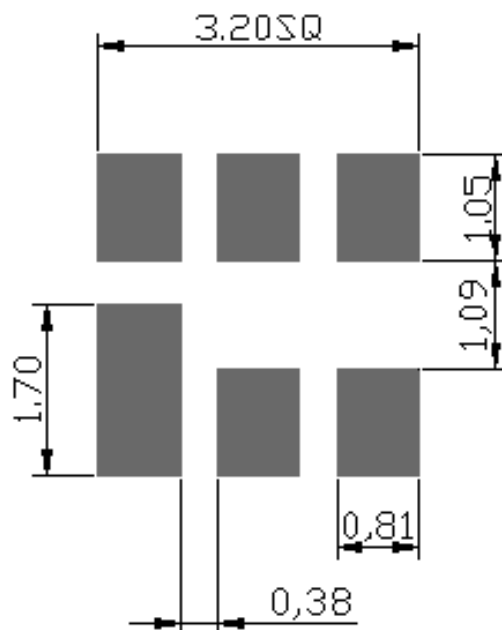
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**D. OUTLINE DRAWING:**



**E. PCB FOOTPRINT:**

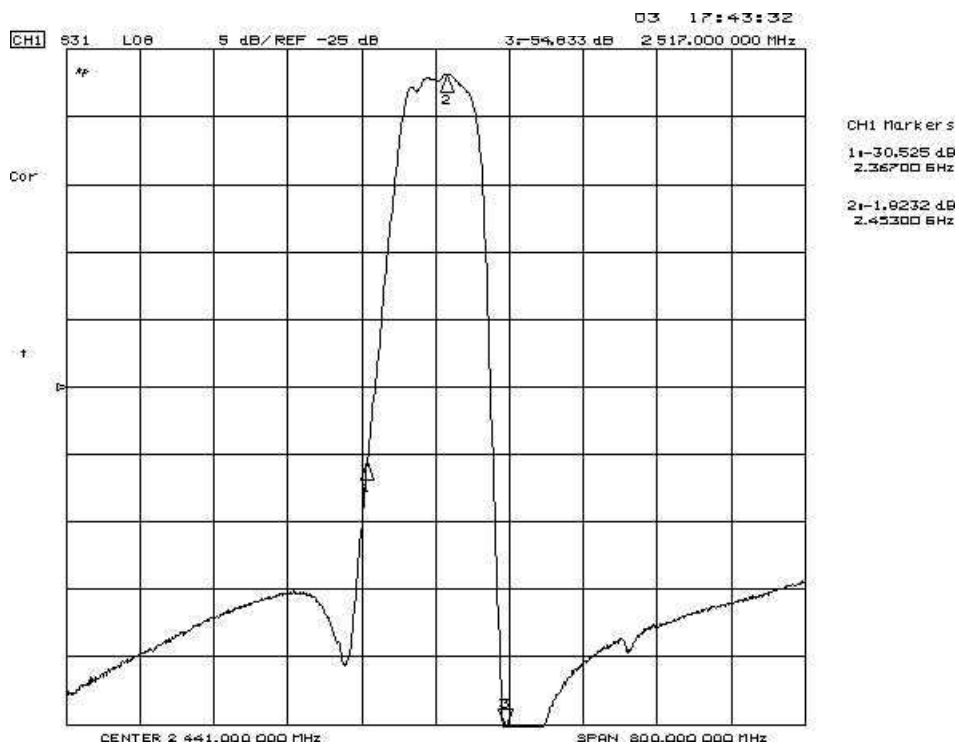
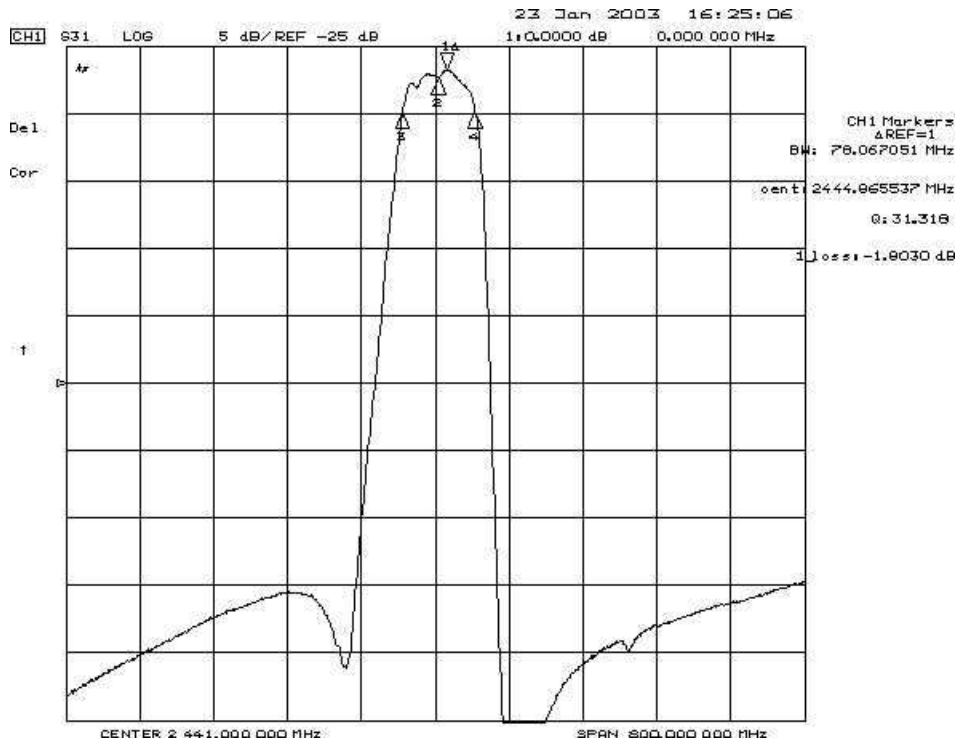


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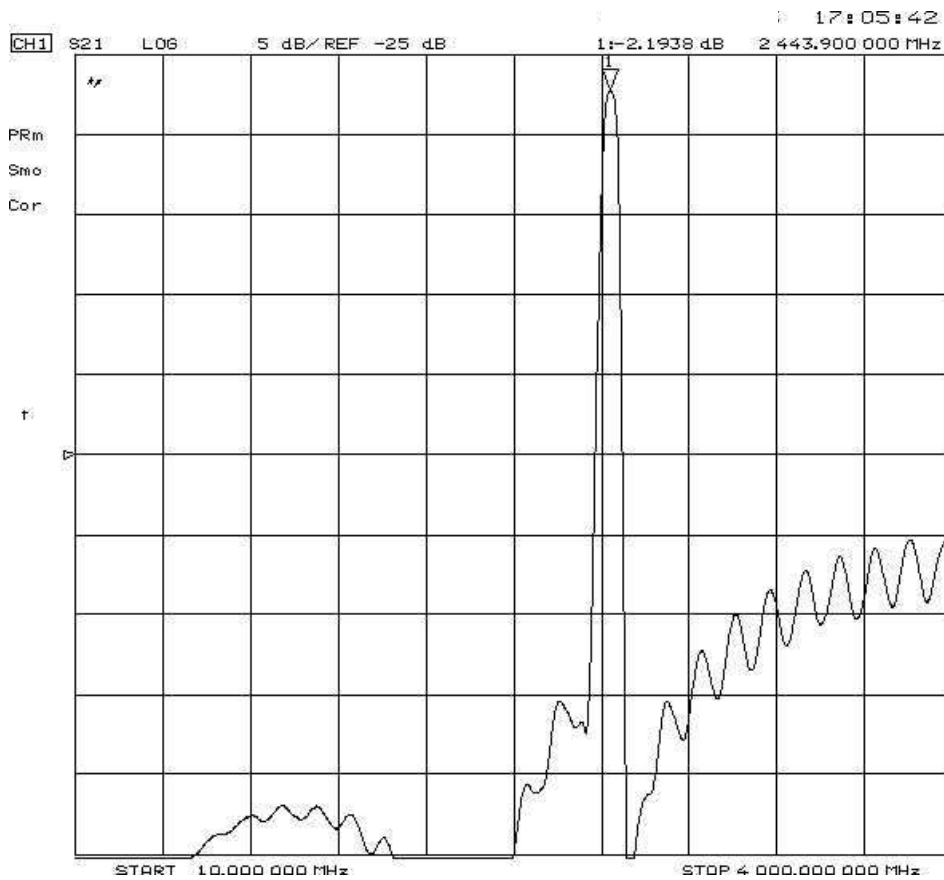
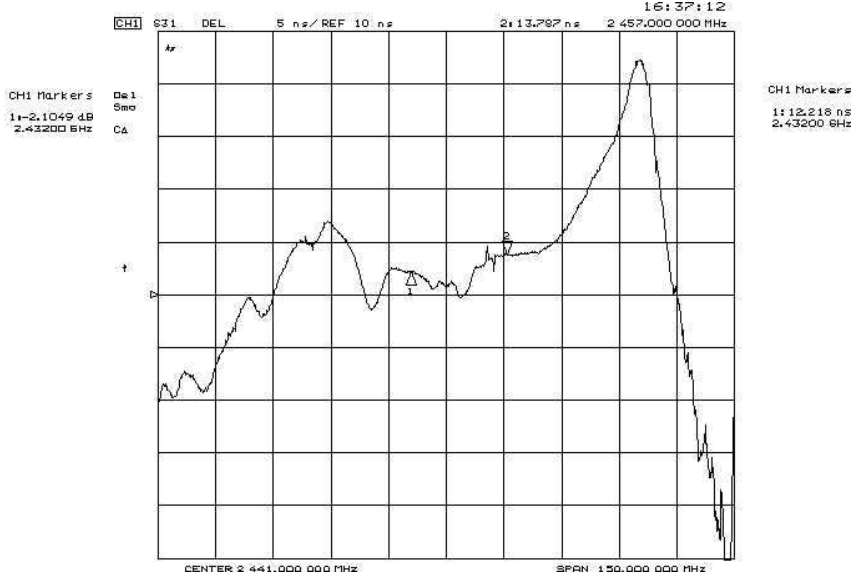
**F. FREQUENCY CHARACTERISTICS:**

Transfer function



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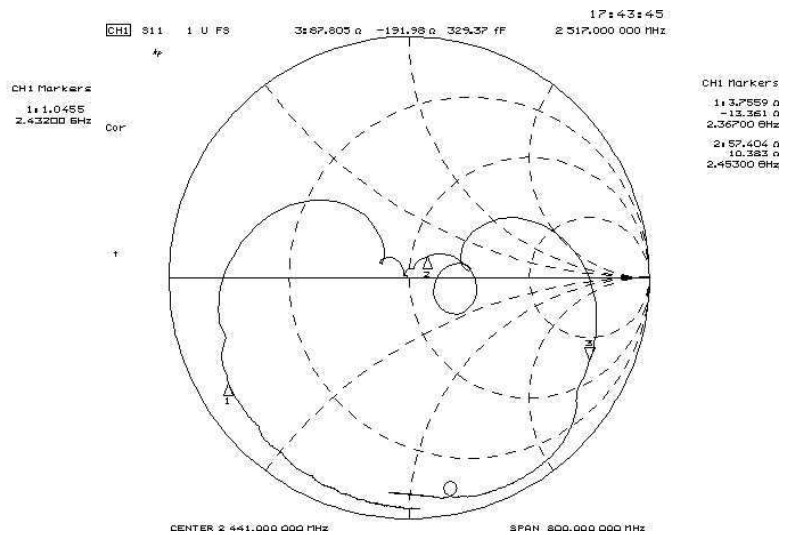
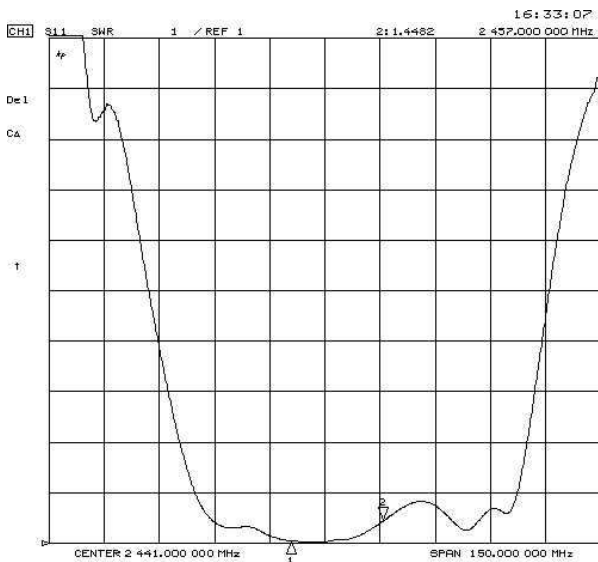


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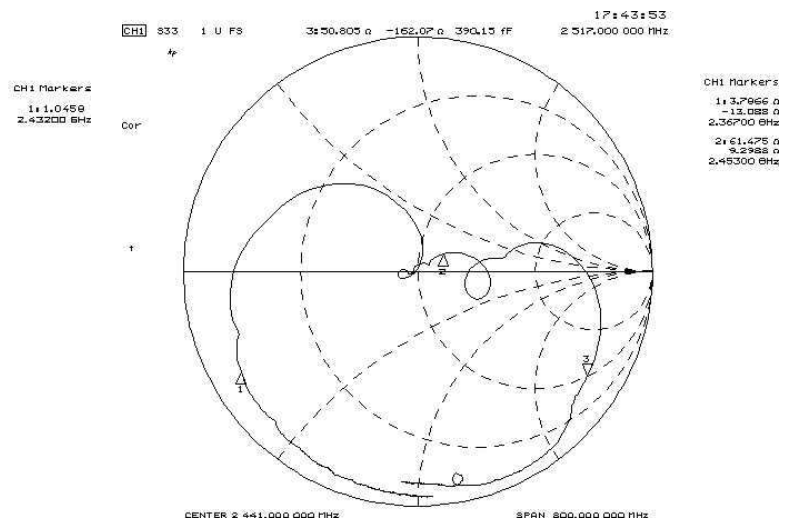
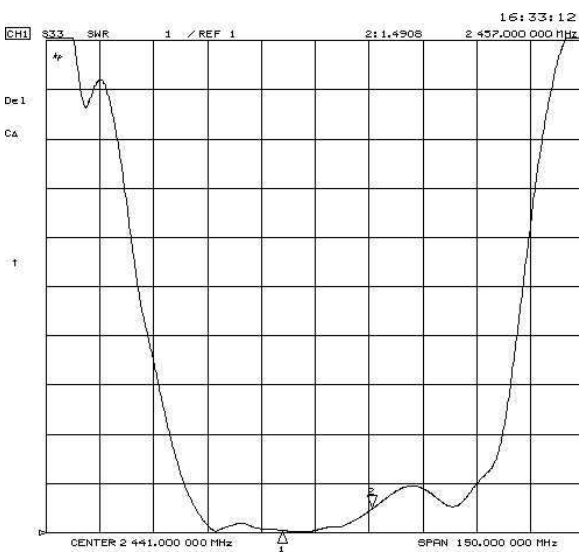
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Reflections Functions

S11 VSWR



S22 VSWR

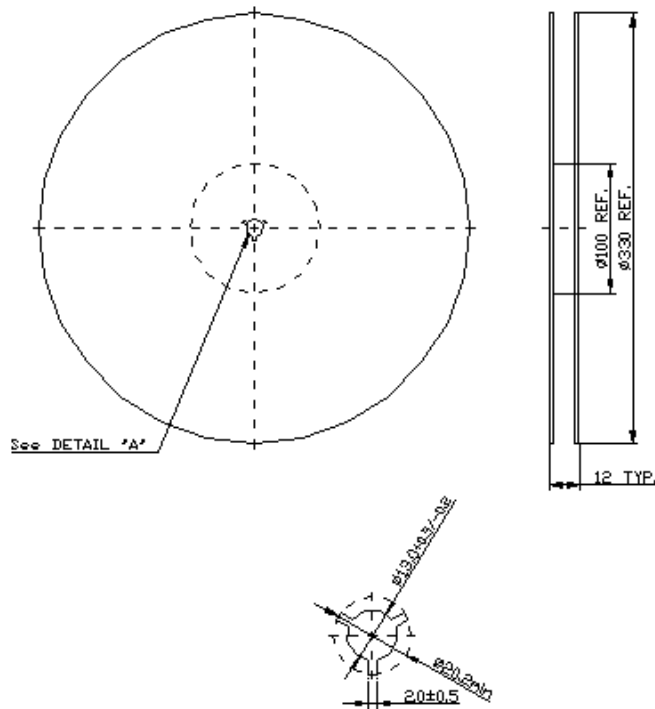


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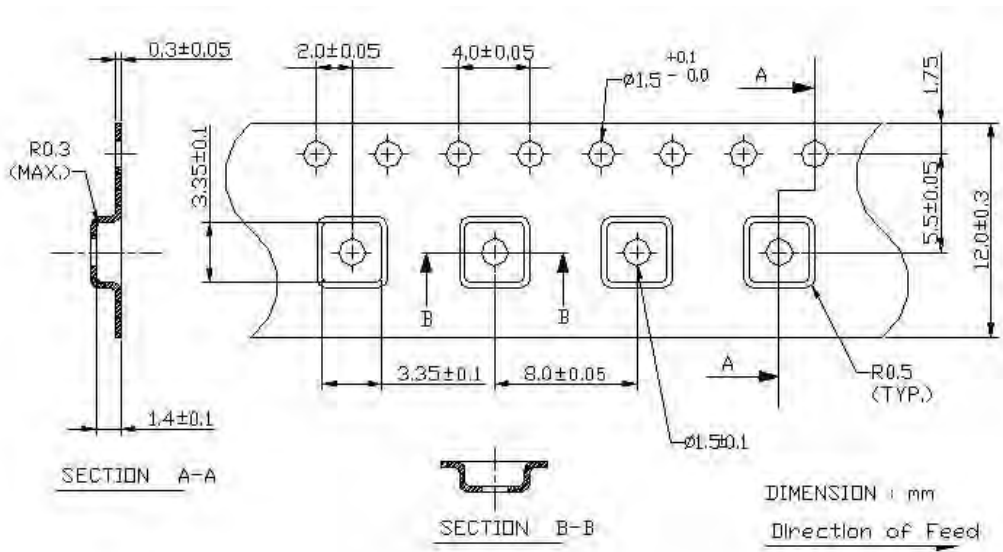
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**G. PACKING:**

1. REEL DIMENSION



2. TAPE DIMENSION



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**H. RECOMMENDED REFLOW PROFILE :**

