

1842.50MHz SAW Filter
Part No: MA07614

Model: TA0363F
Rev No: 2

A1. MAXIMUM RATING:

1. Input Power Level: 13dBm
2. DC voltage: 3V
3. Operating Temperature: 25°C
4. Storage Temperature: -40°C to +85°C

B1. ELECTRICAL CHARACTERISTICS:

Item	Min.	Typ.	Max.
Center frequency Fc (MHz)	-	1842.5	-
Insertion loss (1805 ~ 1880MHz) IL (dB)	-	2.2	3.8
Amplitude ripple (1805 ~ 1880MHz) (dB)	-	1.3	2.3
Attenuation (Reference level from 0dB)			
DC ~ 1500MHz (dB)	20.0	24.5	-
1500 ~ 1710MHz (dB)	22.0	25.0	-
1710 ~ 1785MHz (dB)	10.0	23.5	-
1920 ~ 3120MHz (dB)	25.0	28.0	-
3120 ~ 4000MHz (dB)	17.0	30.0	-
Input/Output VSWR (1805 ~ 1880MHz)	-	1.9	2.1
Source impedance Z _S (Ω)	-	50	-
Load impedance Z _L (Ω)	-	50	-

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A2. MAXIMUM RATING:

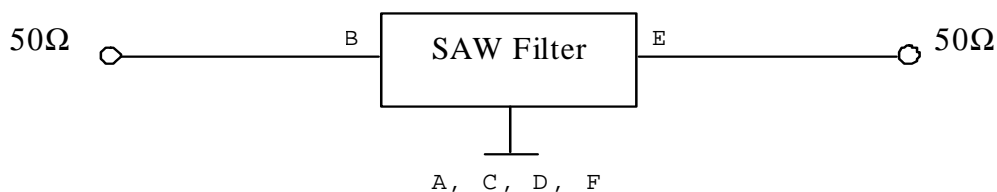
1. Input Power Level: 13dBm
2. DC voltage: 3V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C

B2. ELECTRICAL CHARACTERISTICS:

Item	Min.	Typ.	Max.
Center frequency Fc (MHz)	-	1842.5	-
Insertion loss (1805 ~ 1880 MHz) IL (dB)	-	2.2	3.8
Amplitude ripple (1805 ~ 1880MHz) (dB)	-	1.3	2.3
Attenuation (Reference level from 0dB)			
DC ~ 1500MHz (dB)	20.0	24.5	-
1500 ~ 1710MHz (dB)	22.0	25.0	-
1710 ~ 1785MHz (dB)	10.0	23.5	-
1920 ~ 3120MHz (dB)	25.0	28.0	-
3120 ~ 4000MHz (dB)	17.0	30.0	-
Input/Output VSWR (1805 ~ 1880MHz)	-	2.0	2.2
Source impedance Z _S (Ω)	-	50	-
Load impedance Z _L (Ω)	-	50	-

C. MEASUREMENT CIRCUIT:

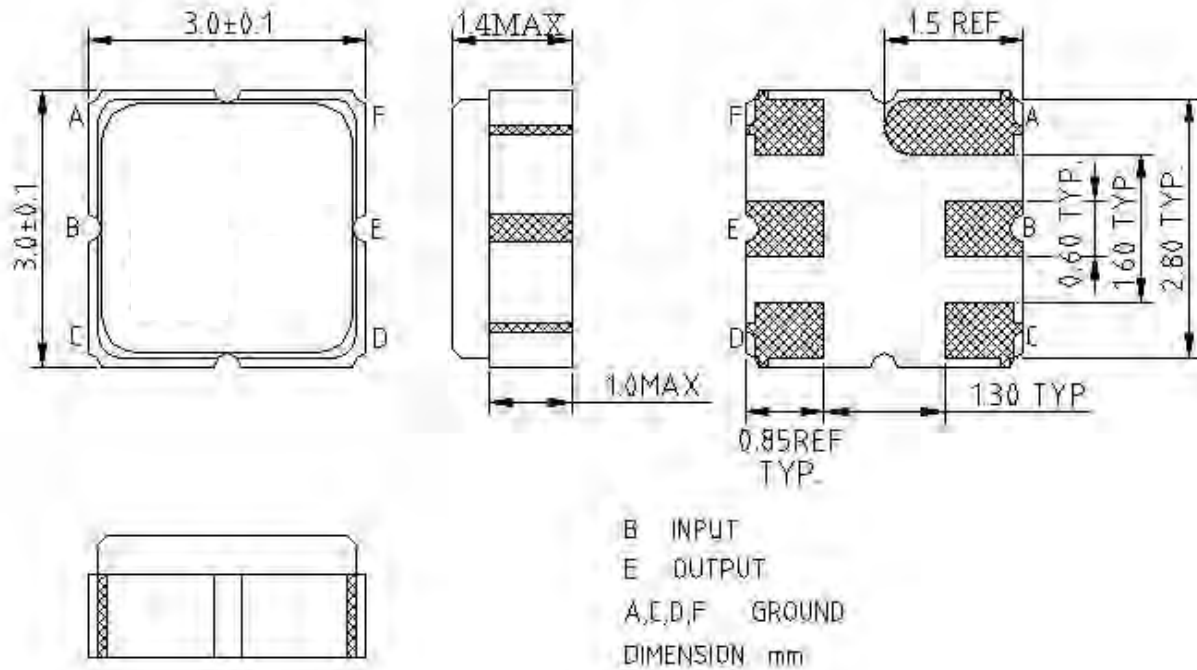
HP Network analyzer



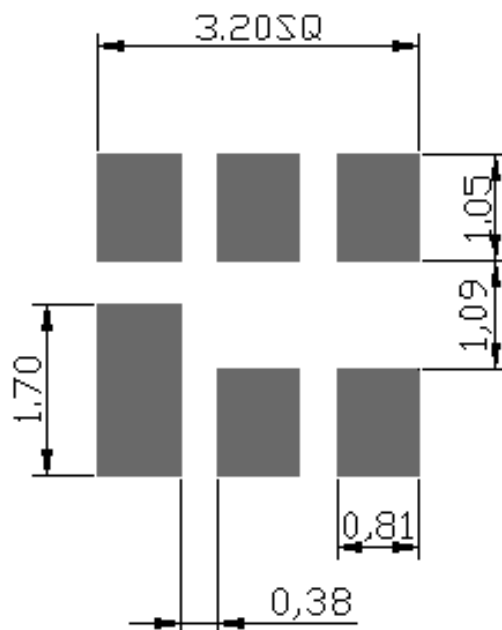
1842.50MHz SAW Filter
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D. OUTLINE DRAWING:



E. PCB FOOTPRINT:

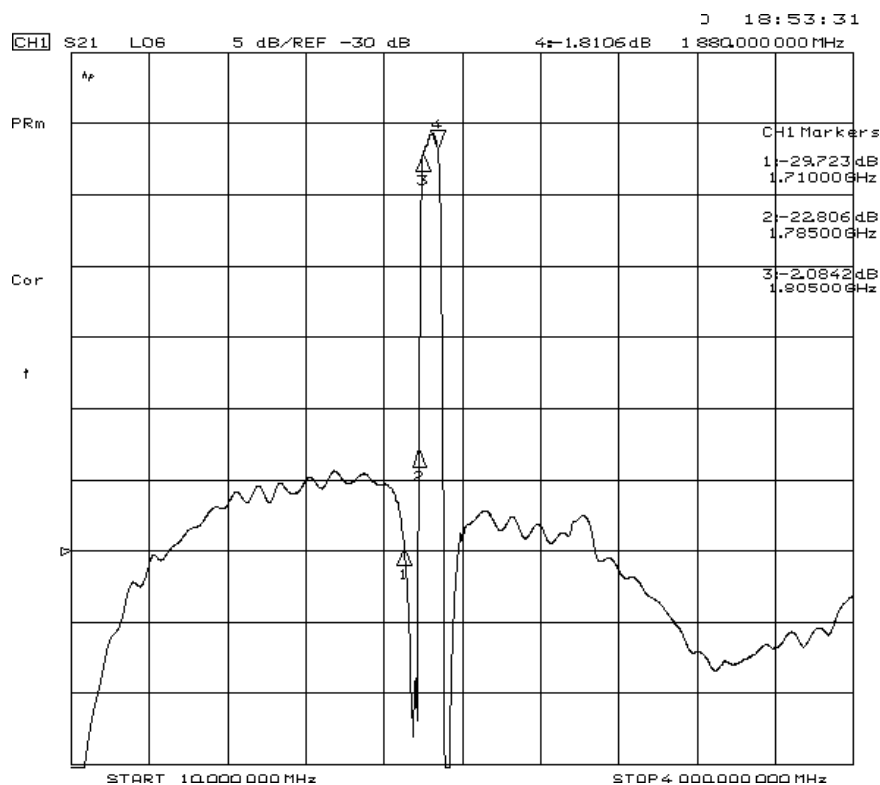
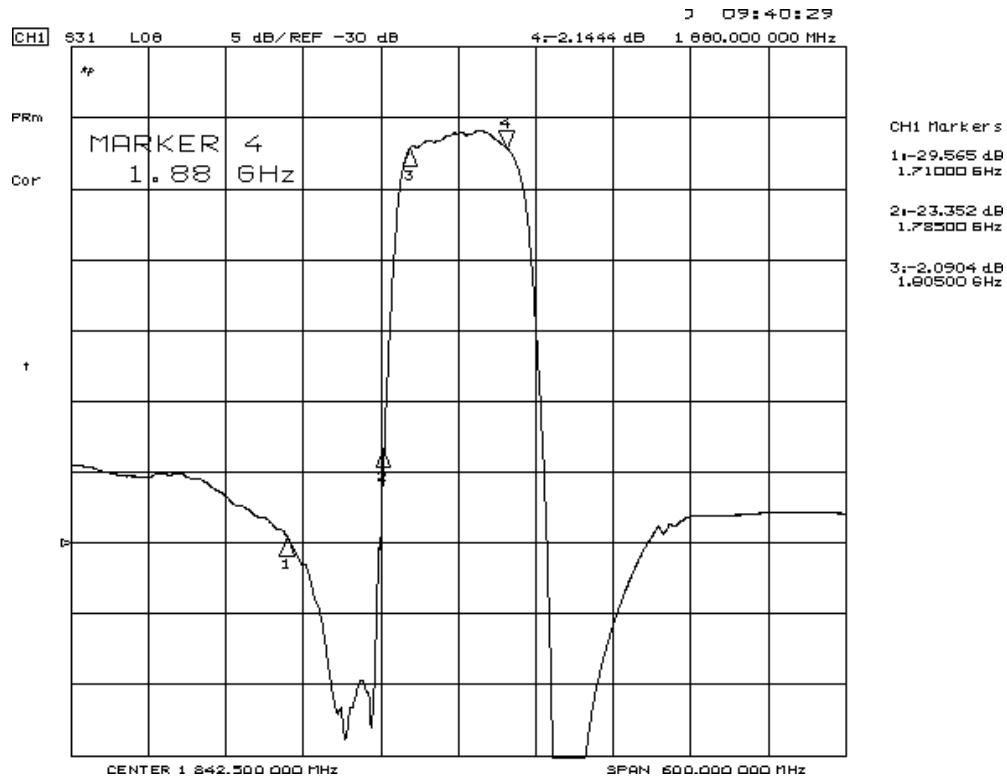


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F. FREQUENCY CHARACTERISTICS:

Transfer function

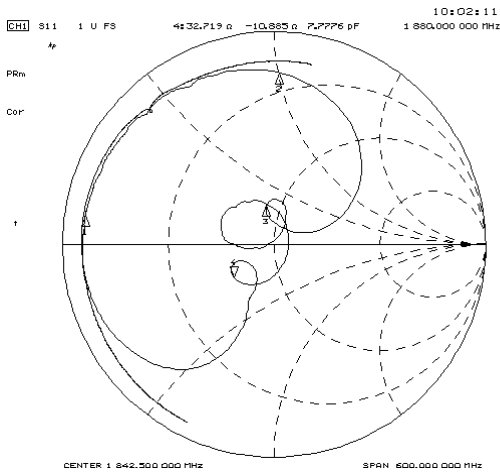


1842.50MHz SAW Filter
Part No: MA07614

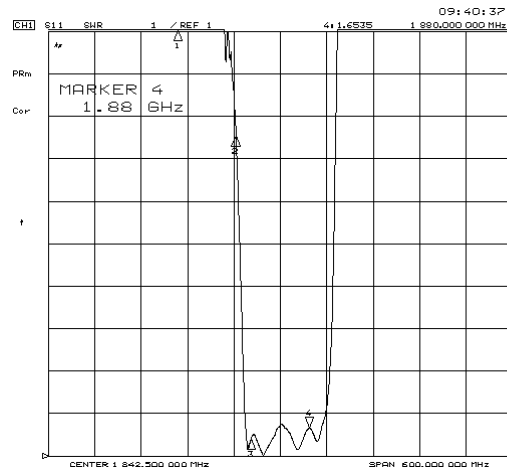
Model: TA0363F
Rev No: 2

Reflections Functions

S11

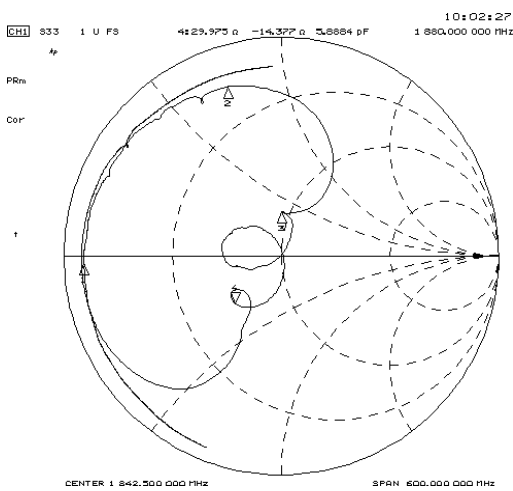


CHI Markers
 1: 2.5825 n
 2: 7.9980 n
 1.71000 GHz
 2: 10.840 n
 30.415 n
 1.76500 GHz
 3: 43.621 n
 16.602 n
 1.60500 GHz

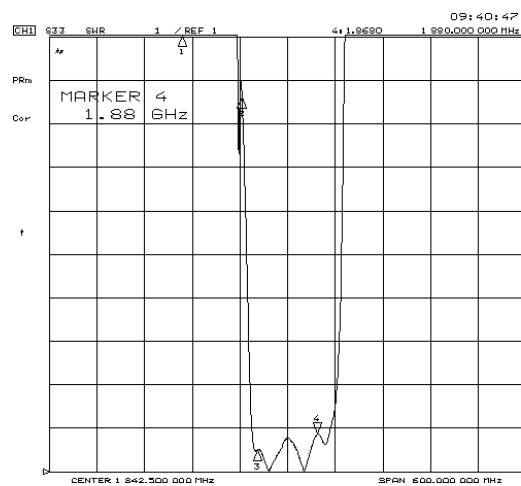


CHI Markers
 1: 16.471
 1.71000 GHz
 2: 8.5643
 1.76500 GHz
 3: 1.4274
 1.60500 GHz

S22



CHI Markers
 1: 2.3982 n
 -903.64 n/d
 1.71000 GHz
 2: 7.9766 n
 36.053 n
 1.76500 GHz
 3: 46.301 n
 19.633 n
 1.60500 GHz



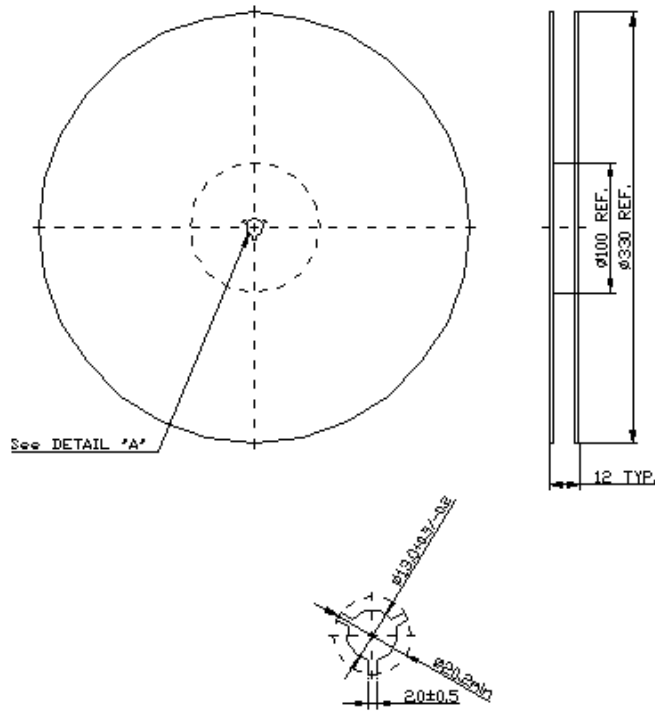
CHI Markers
 1: 21.036
 1.71000 GHz
 2: 9.6247
 1.76500 GHz
 3: 1.5045
 1.60500 GHz

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G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

