

SAW Filter 460.0MHz
Part No: MP07672

Model: TE0114A
Rev No: 1

A. MAXIMUM RATING of FILTER 1:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm
2. DC Voltage: 5V
3. Operating Temperature: -30°C to +60°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS of FILTER 1:

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	460	-	-
Insertion Loss (450 ~ 470MHz) IL	dB	-	2.1	3.2	-
Amplitude Ripple (450 ~ 470MHz)	dB	-	0.5	2.4	-
Return Loss (450 ~ 470MHz)	dB	10	12	-	-
Attenuation (Reference level from 0dB)					
0.1 ~ 300MHz	dB	30	56	-	-
300 ~ 380MHz	dB	24	50	-	-
380 ~ 430MHz	dB	12	29	-	-
504.825 ~ 524.825MHz	dB	12	35	-	-
559.65 ~ 579.65MHz	dB	28	49	-	-
597 ~ 617MHz	dB	38	45	-	-
669.3 ~ 689.3MHz	dB	24	39	-	-
689.3 ~ 1000MHz	dB	26	38	-	-
Temperature Coefficient of Frequency	ppm/°C	-	-75	-	-

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C. MAXIMUM RATING of FILTER 2:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm
2. DC Voltage: 5V
3. Operating Temperature: -30°C to +60°C
4. Storage Temperature: -40°C to +85°C

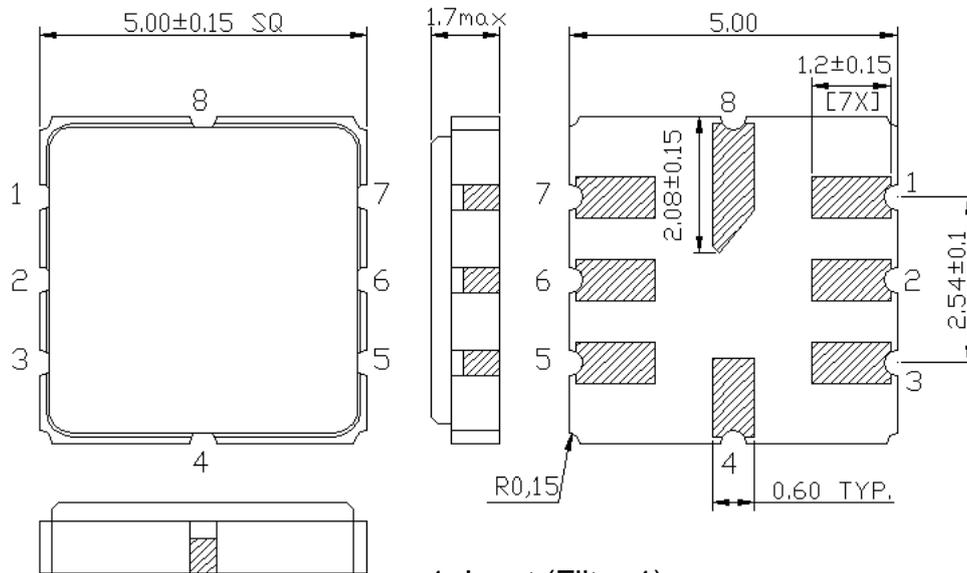
D. ELECTRICAL CHARACTERISTICS of FILTER 2:

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	420	-	-
Insertion Loss (410 ~ 430MHz) IL	dB	-	2.1	3.3	-
Amplitude Ripple (410 ~ 430MHz)	dB	-	0.5	2.2	-
Return Loss (410 ~ 430MHz)	dB	9	10	-	-
Attenuation (Reference level from 0dB)					
0.1 ~ 150MHz	dB	35	58	-	-
204 ~ 216MHz	dB	30	60	-	-
246 ~ 270MHz	dB	30	59	-	-
272 ~ 301MHz	dB	35	56	-	-
328 ~ 344MHz	dB	30	51	-	-
345 ~ 360MHz	dB	25	49	-	-
369 ~ 387MHz	dB	16	43	-	-
451 ~ 473MHz	dB	15	17	-	-
477 ~ 491MHz	dB	25	49	-	-
492 ~ 516MHz	dB	30	45	-	-
532 ~ 573MHz	dB	30	45	-	-
557 ~ 577MHz	dB	38	45	-	-
574 ~ 602MHz	dB	33	45	-	-
602 ~ 1000MHz	dB	27	38	-	-
Temperature Coefficient of Frequency	ppm/°C	-	-75	-	-

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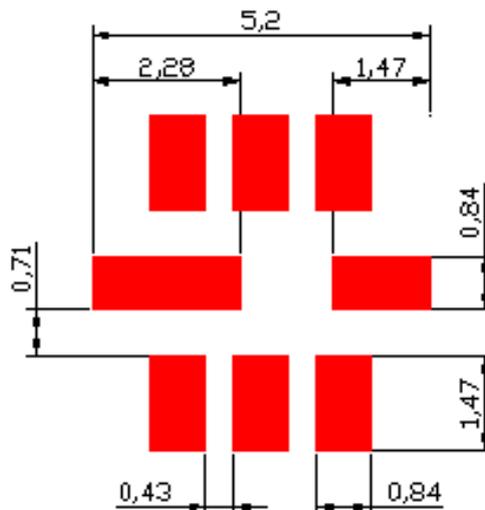
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E. OUTLINE DRAWING:



- 1: Input (Filter 1)
 - 3: Input (Filter 2)
 - 5: Output (Filter 2)
 - 7: Output (Filter 1)
 - 2, 6: To be grounded
 - 4, 8: Case ground
- Unit: mm

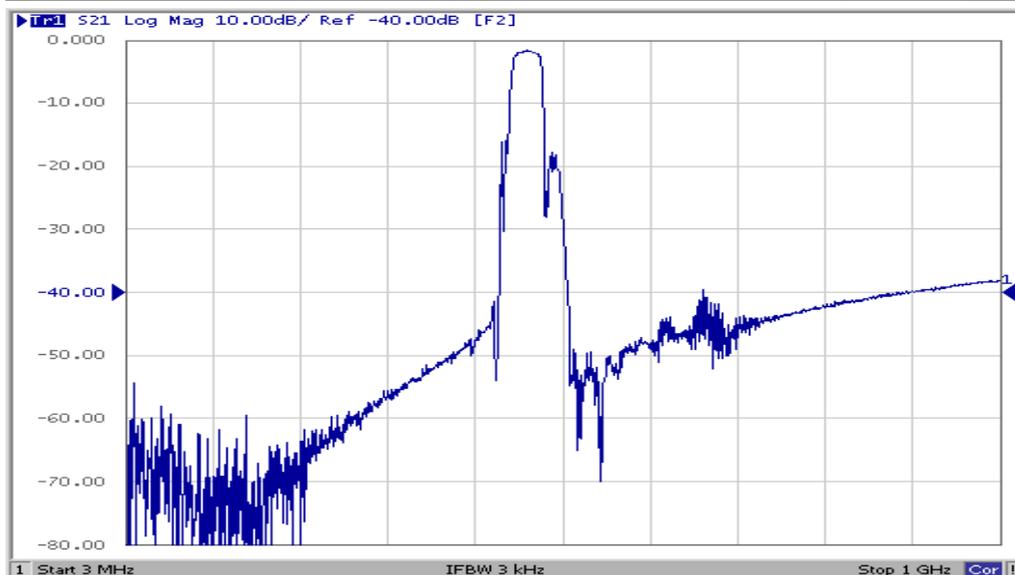
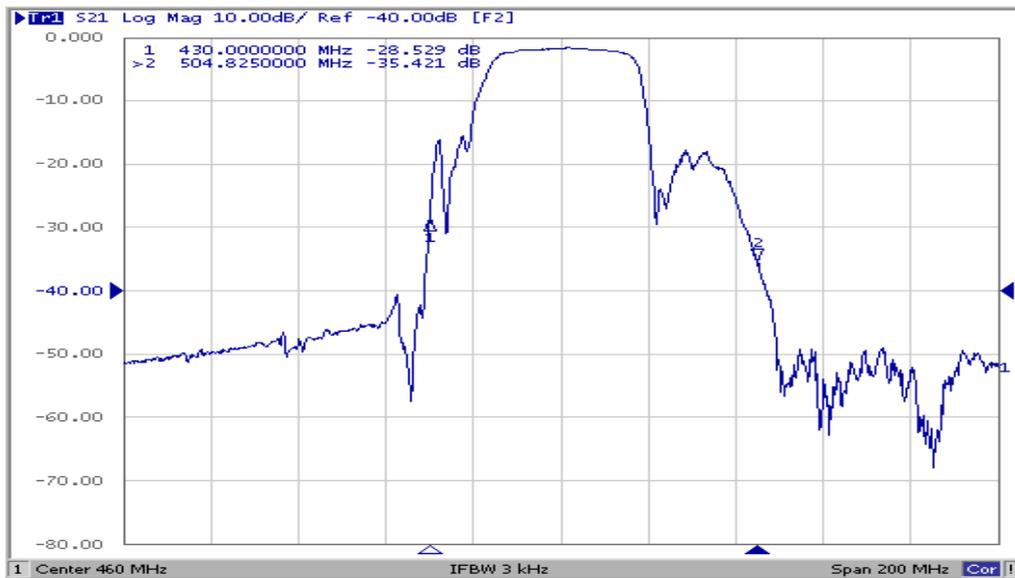
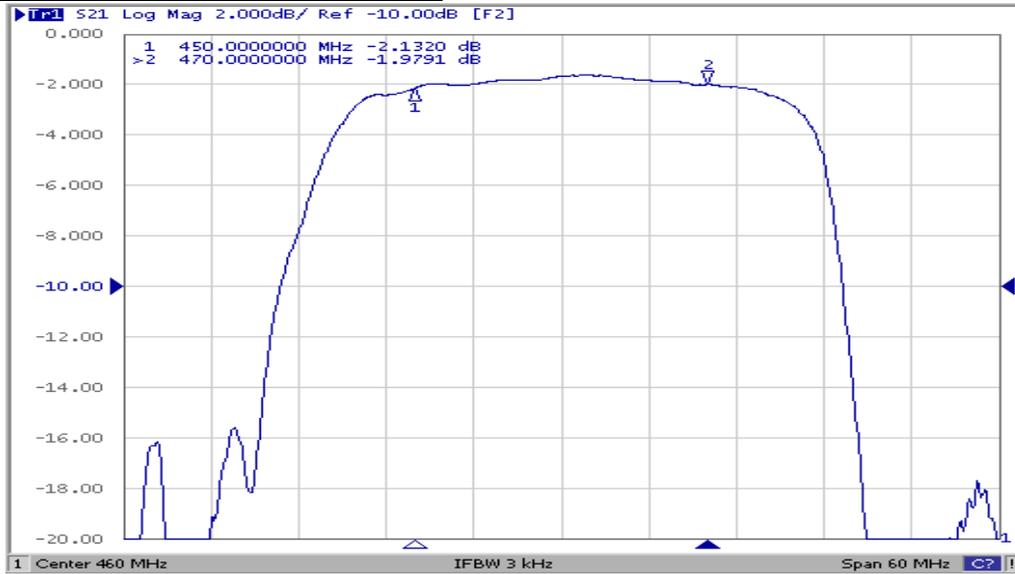
F. PCB FOOTPRINT:



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G. FREQUENCY CHARACTERISTICS: (Filter 1)

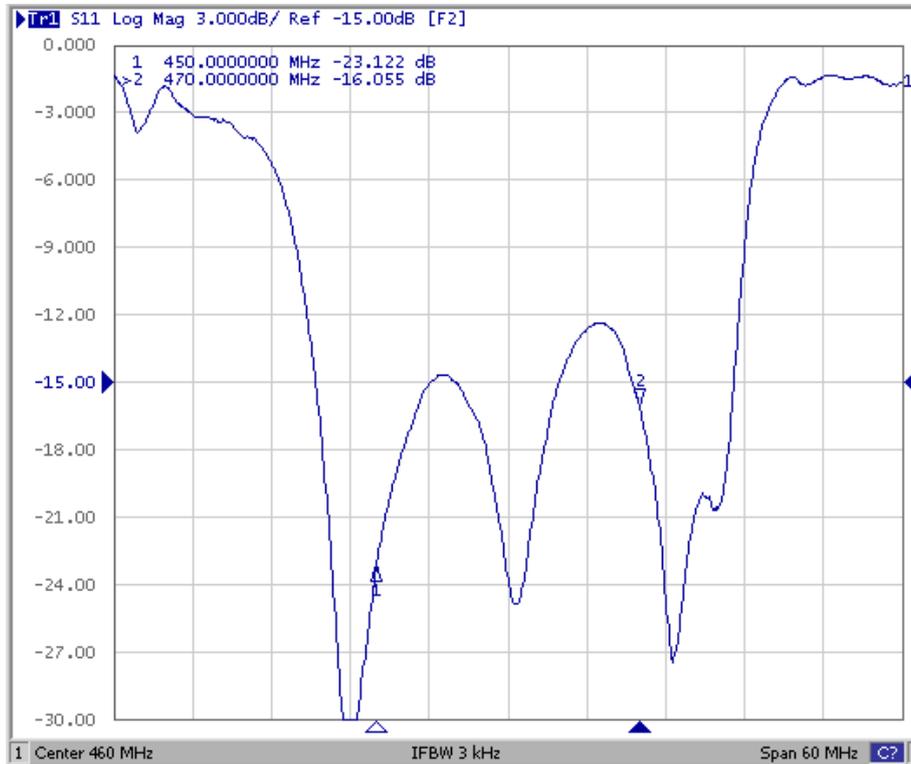


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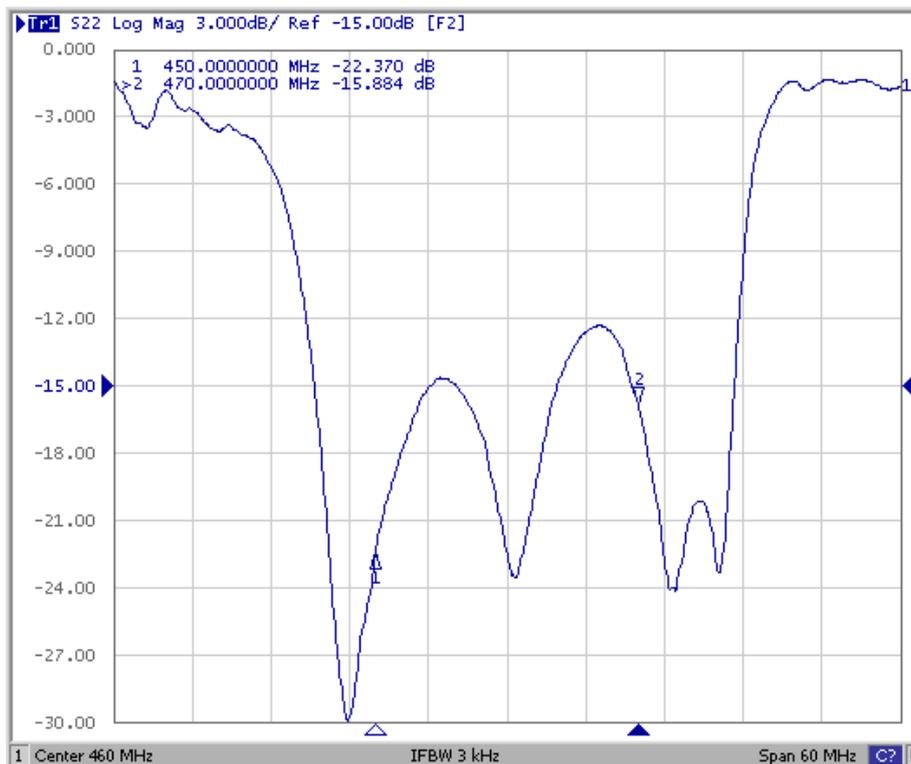
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Reflection Functions: (Filter 1)

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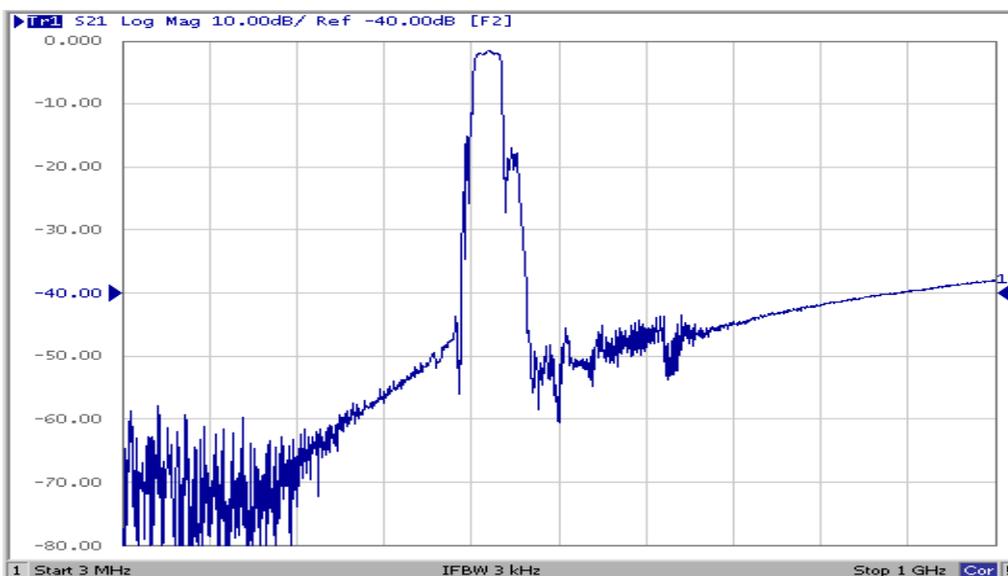
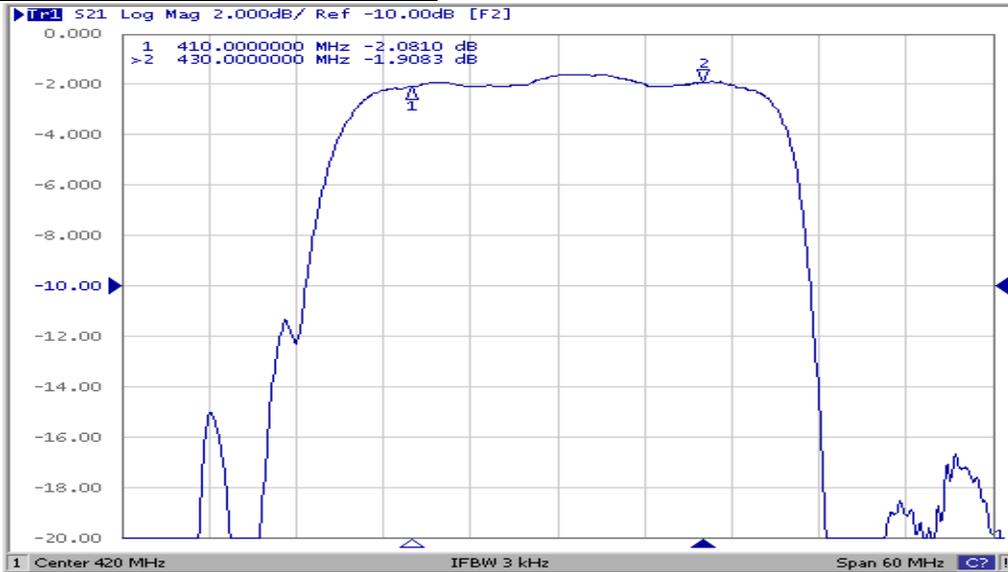
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H. FREQUENCY CHARACTERISTICS: (Filter 2)

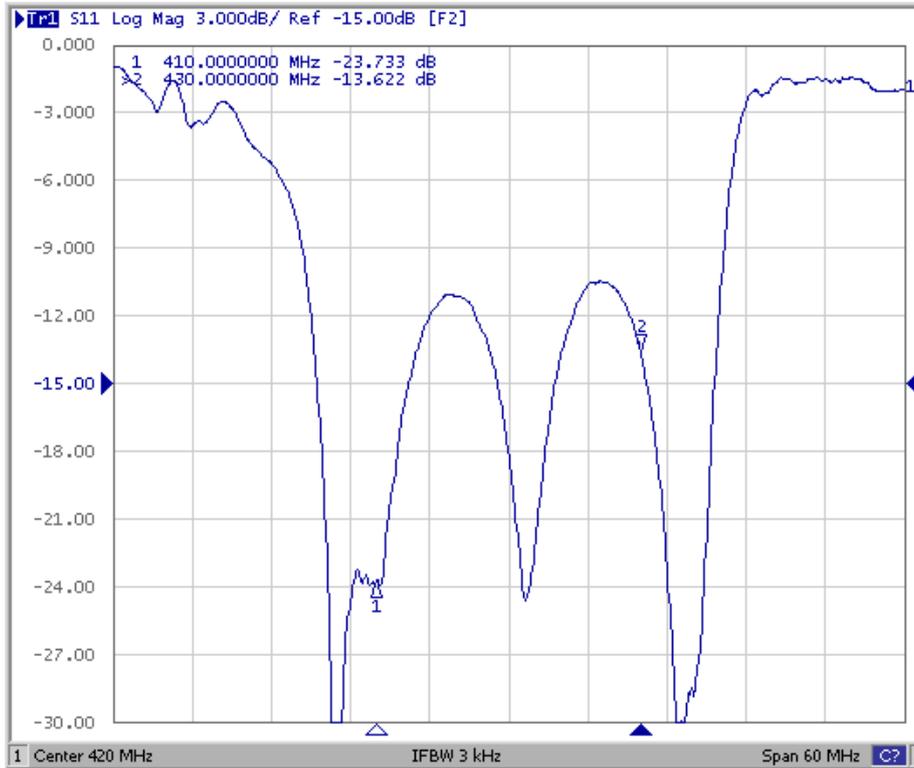


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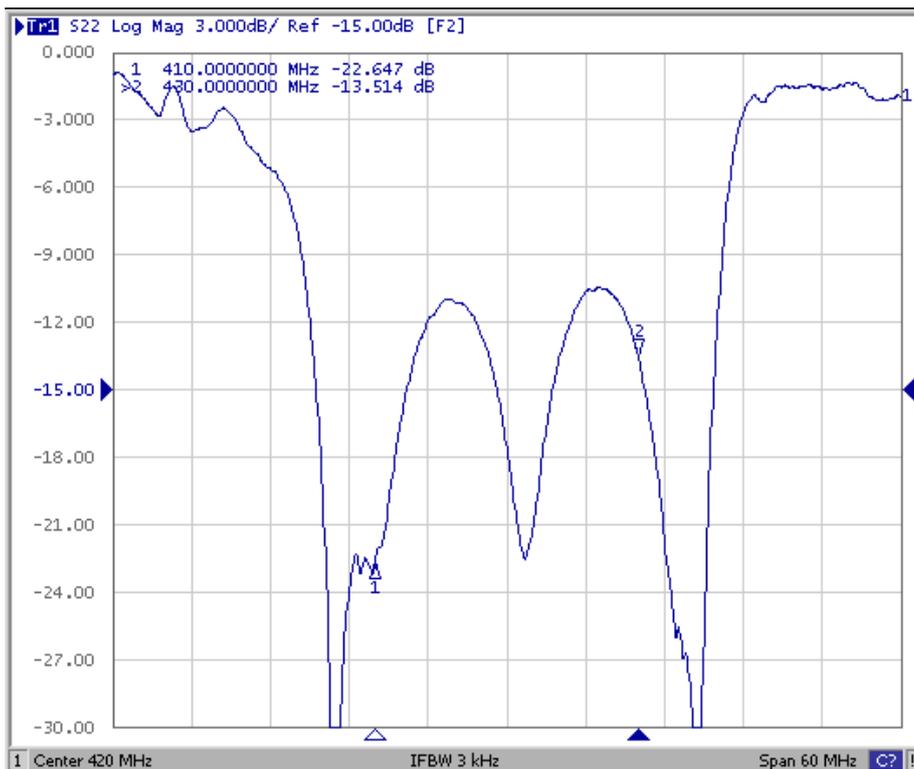
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Reflection Functions: (Filter 2)

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J. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150 ~ 180°C for 60 ~ 90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50 ~ 80 seconds and at 245 ~ 260°C peak (min. 10 sec).
4. Time: 2 times.

