

MOBICON

Electronic Components

PRODUCT SPECIFICATION

MEC

FREQUENCY COMPONENTS

SAW FILTER SPECIFICATION

MOBICON HOLDINGS LTD.		
Prepared By	Sign.	Approved By
Leo Wong		C.H. Wong

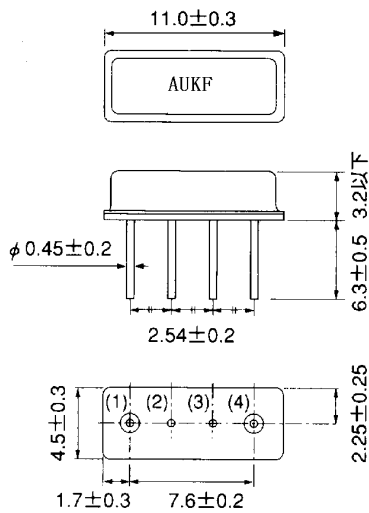
www.mobicon.com

SAW Band Pass Filter for Wireless Communication

1. Features

- High stability and reliability with good performance and no adjustment
- Wide and sharp pass band characteristics
- Low insertion loss and deep stopband attenuation for interference

2. Package Dimension F11 Package



3. Marking

F465A **F465B**

Color: Black or Blue

Center Frequency: 465MHz

4. Pin Connection

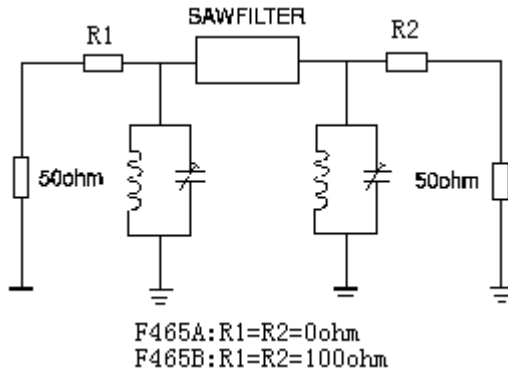
	FUNCTION
1	INPUT
2	GND
3	GND
4	OUTPUT

5. Electrical Characteristics

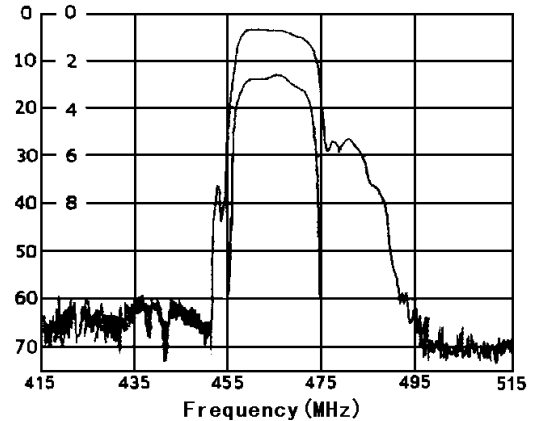
MODEL	F465A	F465B
Operation Temperature	-25 +65	
Storage Temperature	-45 +85	
Nominal Center Frequency(f_0)	465.000MHz	
Passband Width	$f_0 \pm 3.0$ MHz	
Insertion Loss	3.5dB Max. In passband	
Guaranteed Attenuation	50dB Min.($f_0 - 100$ MHz	$f_0 - 40.8$ MHz)
	50dB Min.($f_0 - 40.8$ MHz	$f_0 + 40.8$ MHz)
Terminating Impedance	50 // 0pF	150 // 0pF

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6. Test Circuit



7. Frequency Characteristics



8. Reliability

- Mechanical Shock: The components shall remain within the electrical specifications after 1000 shocks, acceleration 392m/s^2 duration 6 milliseconds.
- Vibration Fatigue: The components shall remain within the electrical specifications after loaded vibration at 20 Hz, amplitude 1.5 mm, for 2 hours.
- Terminal Strength: The components shall remain within the electrical specifications after pulled 2 Kgs weight for 10 seconds towards an axis of each terminal.
- High Temperature Storage: The components shall remain within the electrical specifications after being kept at the 85 ± 2 for 48 hours, then kept at room temperature for 2 hours.
- Low Temperature Storage: The components shall remain within the electrical specifications after being kept at the -25 ± 2 for 48 hours, then kept at room temperature for 2 hours.
- Temperature Cycle: The components shall remain within the electrical specifications after 5 Cycles of high and low temperature testing (one cycle: 80 for 30 minutes 25 for 5 minutes -25 for 30 minutes) than kept at room temperature for 2 hours.
- Solder-heat Resistance: The components shall remain within the electrical specifications after dipped in the solder at 260 for 10 ± 1 seconds, then kept at room temperature for 2 hours. (Terminal must be dipped leaving 1.5 mm from the case).
- Solderability: Solderability of terminal shall be kept at more than 80% after dipped in the solder flux at 230 ± 5 for 5 ± 1 seconds.

REVIEW OF SPECIFICATIONS

- 1) When something get doubtful with this specifications, we shall jointly work to get an agreement.
- 2) This specification limits the quality of the components as a single unit. Please insure the component is thoroughly evaluated in your application circuit.
- 3) Please do not use this component in any application that deviates from its intended use as noted within the specification. It may cause any mishaps.
- 4) Please return one of this specification after your signature of acceptance. In case of no return within 3 months from submission date. This specification should be treated as accepted.

When using our products, the following precautions should be taken.

- (1) Safety designing of apparatus or a system allowing for failures of electronic components used in the system

In general, failures will occur in electronic components at a certain probability. MOBICON HOLDINGS LTD makes every effort to improve the quality and reliability of electronic component products. However, it is impossible to completely eliminate the probability of failures. Therefore, when using MOBICON HOLDINGS LTD electronic component products, systems should be carefully designed to ensure redundancy in the event of an accident which would result in injury or death, fire, or social damage, to ensure the prevention of the spread of fire, and the prevention of faulty operation.
- (2) Quality Level of various kinds of parts, and equipment in which the parts can be utilized

Electronic components have a standard quality level unless otherwise specified.
- (3) This specifications is subject to change without notice.

The contents of this specifications are based on data which is correct as of 2002, and they may be changed without notice. If our products are used for mass-production design, please enquire consult with a member of our company's sales staff by way of precaution.
- (4) Reprinting and copying of this specifications without prior written permission from MOBICON HOLDINGS LTD are not permitted.
- (5) Industrial Property Problems

In the event any problems associated with industrial property of a third party arising as a result of the use of our products. MOBICON HOLDINGS LTD assumes no responsibility for problems other than problems directly associated with the constitution and manufacturing method of the products.



Prepared By: Leo Wong
DOC. No: Review of Spec