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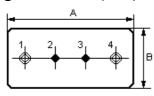
SPECIFICATION

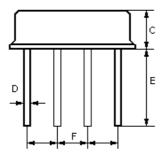
<u>PRODUCT:</u>	SAW	FILTER	
MODEL:	HF43	3.92 F-11	

HOPE MICROELECTRONICS CO.,LIMITED

The **HF433.92** is a low-loss, compact, and economical surface-acoustic-wave (**SAW**) filter in a low-profile metal **F-11** case designed to provide front-end selectivity in **433.920** MHz receivers. Receiver designs using this filter include superhet with 10.7 MHz or 500 kHz IF, direct conversion and superregen.

1.Package Dimension (F-11)





Pin	Configuration		
1	Input / Output		
4	Output / Input		
2/3	Case Ground		
Dimensions	Data (unit: mm)		

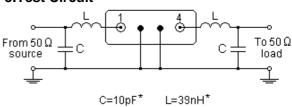
Dimensions	Data (unit: mm)
А	11.0±0.3
В	4.5±0.3
С	3.2±0.3
D	0.45±0.1
Е	5.0±0.5
F	2.54±0.2

2.Marking

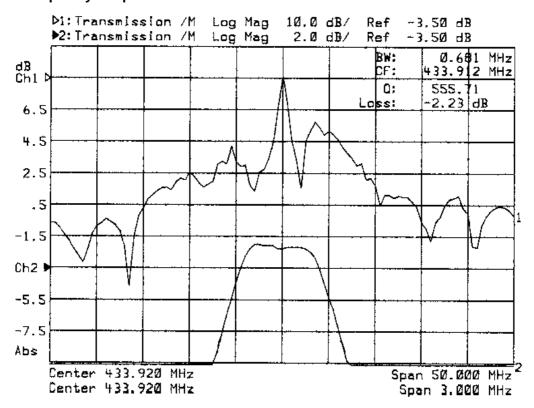
HF433.92

Color: Black or Blue

3.Test Circuit



4.Typical Frequency Response



5.Performance

5-1. Maximum Rating

Rating		Value	Unit
CW RF Power Dissipation	Р	+10	dBm
DC Voltage Between Any Two Pins	V_{DC}	± 30	V
Storage Temperature Range	$T_{ m stg}$	-40 to +85	
Operating Temperature Range	T_{A}	-10 to +60	

5-2. Electronic Characteristics

Characteristic			Minimum	Typical	Maximum	Unit
Center Frequency (center frequency between 3dB points)		$f_{\mathbb{C}}$		433.920		MHz
Insertion Loss		IL		3.0	5.0	dB
3dB Bandwidth		BW ₃		600	800	kHz
Rejection	at f _C -21.4MHz (Image)		40	50		dB
	at f _C -10.7MHz (LO)		20	30		
	Ultimate			60		
Temperature	Turnover Temperature	T_{O}	25		55	
	Turnover Frequency	f _O		$f_{\mathbb{C}}$		MHz
	Frequency Temperature Coefficient	FTC		0.032		ppm/ ²
Frequency Aging Absolute Value during the First Year f.		fA		10		ppm/yr

(i) CAUTION: Electrostatic Sensitive Device. Observe precautions for handling!

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- 1. The frequency f_C is defined as the midpoint between the 3dB frequencies.
- 2. Unless noted otherwise, all measurements are made with the filter installed in the specified test fixture that is connected to a 50 test system with VSWR 1.2:1. The test fixture L and C are adjusted for minimum insertion loss at the filter center frequency, f_C. Note that insertion loss, bandwidth, and passband shape are dependent on the impedance matching component values and quality.
- 3. Unless noted otherwise, specifications apply over the entire specified operating temperature range.
- 4. Frequency aging is the change in f_C with time and is specified at +65°C or less. Aging may exceed the specification for prolonged temperatures above +65°C. Typically, aging is greatest the first year after manufacture, decreasing in subsequent years.
- 5. Turnover temperature, T_0 , is the temperature of maximum (or turnover) frequency, f_0 . The nominal frequency at any case temperature, T_C , may be calculated from: $f = f_0 [1 FTC (T_0 T_C)^2]$.
- The specifications of this device are based on the test circuit shown above and subject to change or obsolescence without notice.
- 7. All equipment designs utilizing this product must be approved by the appropriate government agency prior to manufacture or sale.
- 8. Our liability is only assumed for the Surface Acoustic Wave (SAW) component(s) per se, not for applications, processes and circuits implemented within components or assemblies.
- 9. For questions on technology, prices and delivery, please contact our sales offices or e-mail sales@hoperf.com.