

SPECIFICATION OF SAW FILTER

YOKETAN CORP.

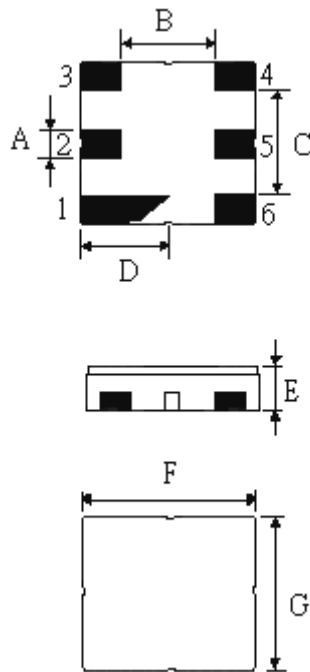
Spec no: SM3030F-04339-004-NJ-A

1. Features

Low-Loss. Economical SAW RF filter in a surface-mount ceramic case with center frequency 433.920 MHz.

2. Type : SM3030 (Lead Free Parts)

3. Product Dimension



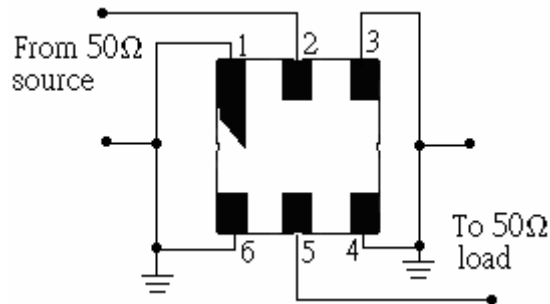
Pin	Connection
2	Input / Output
5	Output / Input
1,3,4,6	Case Ground

Sign	Data (unit:mm)	Sign	Data(unit:mm)
A	0.6±0.1	E	1.1±0.2
B	1.5±0.1	F	3.0±0.15
C	1.8±0.1	G	3.0±0.15
D	1.5±0.15		

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4. Test Circuit



5. Performance

5-1. Maximum Ratings

Rating		Value	Units
Input Power Level	P	0	dBm
DC Voltage	V_{DC}	10	V
Operable Temperature Range	T_A	-10 to +65	
Storage Temperature Range	T_{stg}	-40 to +85	

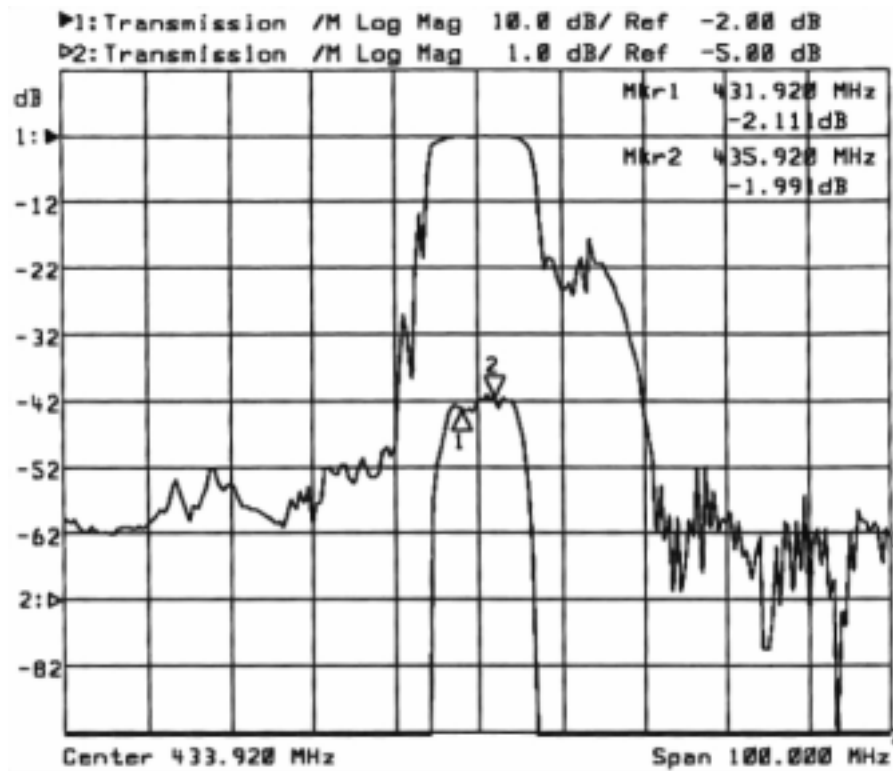
5-2. Electronic Characteristics

Item		Min	Typ.	Max	Unit
Center Frequency	f_c	--	433.920	--	MHz
Usable Bandwidth	BW		± 2.0		MHz
Insertion Loss	IL	--	2.5	4.0	dB
	$f_c \pm 2\text{MHz}$				
Ultimate Attenuation	α				
	DC $f_c - 20.0\text{MHz}$	42	50	--	dB
	$f_c + 25.0\text{MHz}$ $f_c + 200.0\text{MHz}$	42	50	--	dB
Passband Ripple	$\Delta\alpha$	--	1.0	1.5	dB
	$f_c \pm 2\text{MHz}$				
Input / Output Impedance (Nominal)		50Ω			

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6. Frequency Response



7. Notice

Unless noted otherwise, all measurements are made with the filter installed in the specified test fixture that is connected to a 50Ω test system with $VSWR \leq 1.2:1$. 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.