SPECIFICATION OF SAW FILTER

YOKETAN CORP.

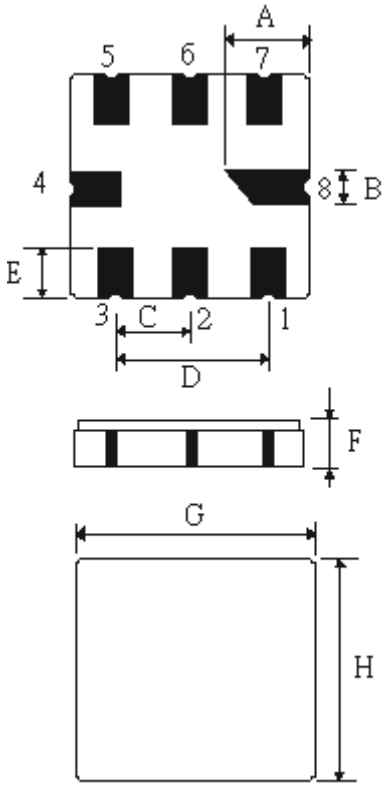
Spec no: SM5050F-03038-R60-NJ-A

1. Features

Low-loss .Receiver designs using this filter include superhet with 10.7MHz or 500KHz IF , direct conversion and superregen.

2. Type : SM5050 (Lead Free Parts)

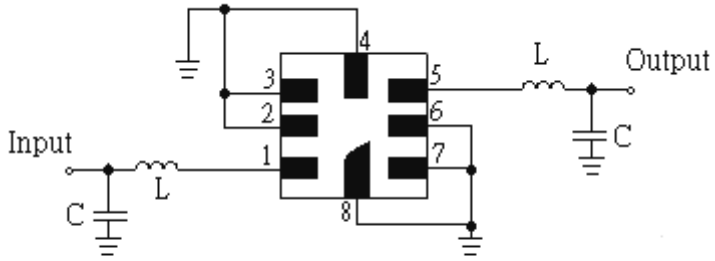
3. Product Dimension



Pin	Connection
2	Input
1	Input-ground
6	Output
5	Output-ground
3,7	To be Ground
4,8	Case Ground

Sign	Data (unit:mm)	Sign	Data(unit:mm)
A	2.08±0.15	E	1.2±0.15
B	0.60±0.1	F	1.35±0.15
C	1.27±0.1	G	5.0±0.2
D	2.54±0.1	H	5.0±0.2

4. Test Circuit



C = 15pF* L= 70nH*

5. Performance

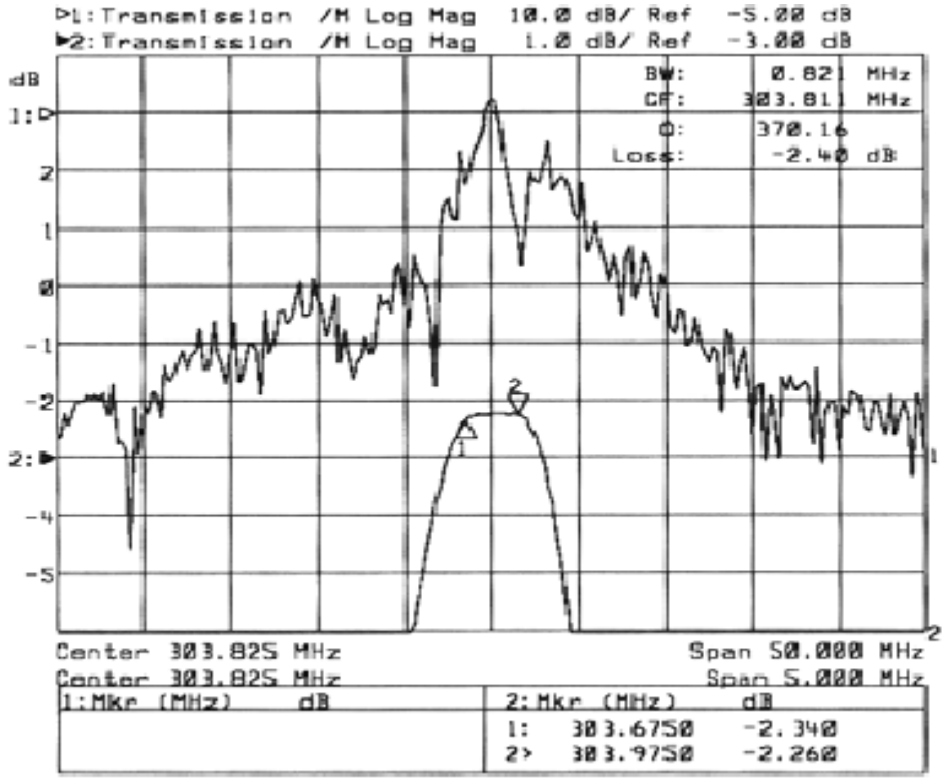
5-1.Maximum Ratings

Rating	Value	Units
Input Power Level	10	dBm
DC Voltage	12V	V
Storage temperature range	-40 to +85	℃
Operable temperature range	-10 to +60	℃

5-2.Electronic Characteristics

Item			Min	Typical	Max	Units
Center Frequency (center frequency between 3dB points)		fc	--	303.825	--	MHz
Insertion Loss		*IL*		3.0	4.5	dB
3dB Pass band		*BW3*		600	900	KHz
Rejection	at fc -21.4MHz(Image)		40	50	--	dB
	at fc -10.7MHz(LO)		20	30	--	
	Ultimate		--	60	--	
Temperature	Turnover Temperature	To	25		55	℃
	Turnover Frequency	fo		fc		MHz
	Frequency Temperature Coefficient	*FTC*		0.032		ppm/℃
Frequency Aging Absolute Value during the First Year		| fA |		10		ppm/yr

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≤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.