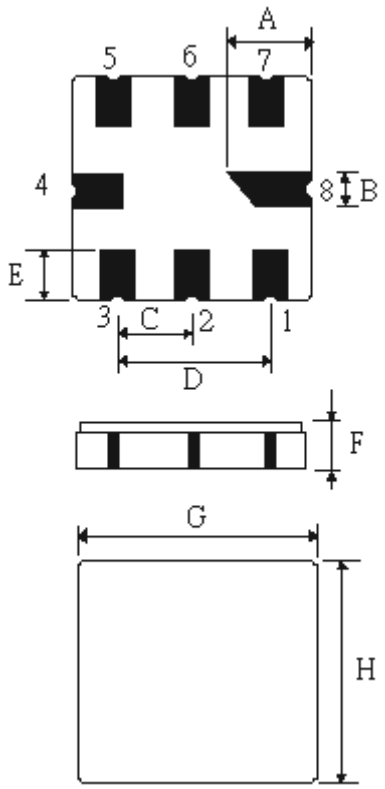
SPECIFICATION OF SAW FILTER

YOKETAN CORP.

Spec no: SM5050F-08683-001-NJ-A

1. **Type :** SM5050 (Lead Free Parts)

2. **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

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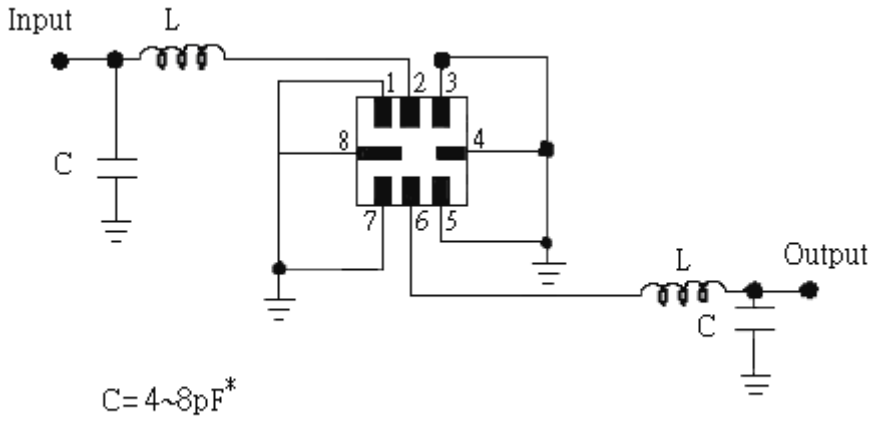
3. Test Circuit



C= 4~8pF*

L=2 turns of 0.5mm insulated copper, 3.0 ID(nH)

4. Performance

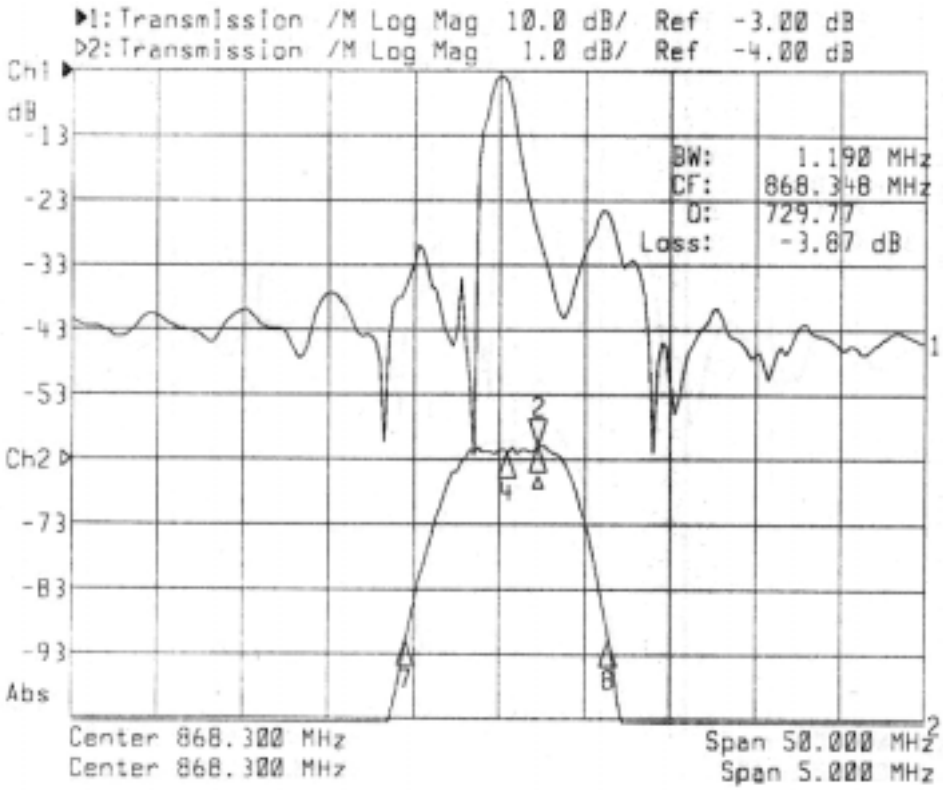
4-1.Maximum Ratings

Rating	Value	Units
Input Power Level	10	dBm
DC Voltage	12V	VDC
Storage Temperature Range	-40 to +85	℃
Soldering Temperature	+235	℃

4-2.Electronic Characteristics

Item		Min.	Typ.	Max..	Units
Center Frequency f_c (center frequency between 3dB points)			868.30		MHz
Insertion Loss I_L		--	4.0	5.5	dB
3dB Pass band BW_3			1.2	1.5	MHz
Rejection	at f_c -21.4MHz (Image)	30	40	--	dB
	at f_c -10.7MHz (LO)	15	30	--	
	Ultimate	--	60	--	
Temperature	Operating Case Temperature	-40		+85	℃
	Turnover Temperature *To*	25	40	55	
	Turnover Frequency *fo*		fc		MHz
	Frequency Temperature Coefficient		0.032		ppm/
Frequency Aging Absolute Value during the			10		ppm/yr

5. Frequency Response



6 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.