

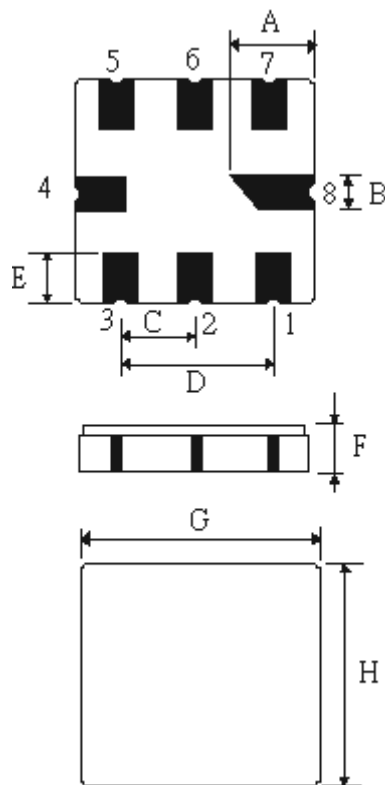
# SPECIFICATION OF SAW FILTER

YOKETAN CORP.

Spec no: SM5050F-04460-006-NJ-A

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

**2. Product Dimension**



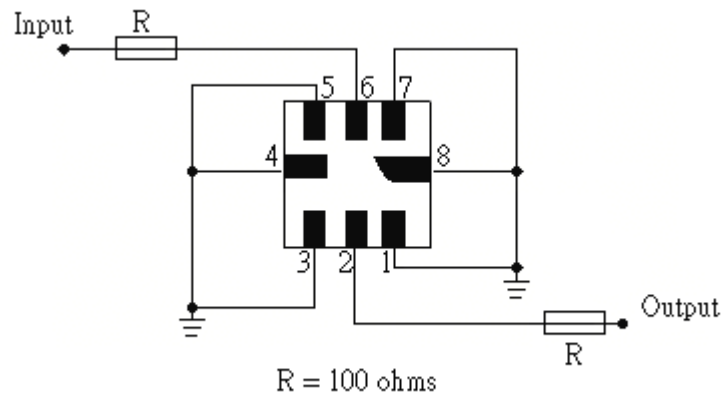
Pin	Connection
2	Input/Output
6	Output/Input
1,3,5,7	To be ground
4,8	Case Ground

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



## 4. Performance

### 4-1. Maximum Ratings

Rating	Value	Units
CW RF Power Dissipation	+10	dBm
DC Voltage Between Any Two Pins	$\pm 30\text{V}$	VDC
Case Temperature	-40 to +85	

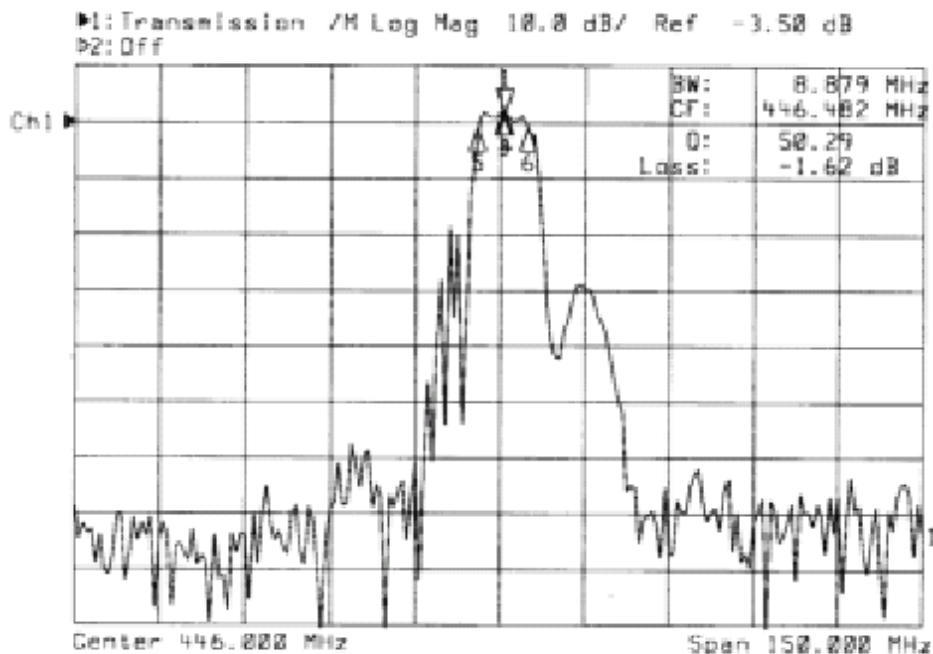
### 4-2. Electronic Characteristics

Item	Min	Typ	Max	Units
Center Frequency $f_c$	--	446.00	--	MHz
User Signal Band	--	$\pm 3.0$		MHz
Insertion Loss ( $f_c \pm 3.0\text{MHz}$ )		3.5	5.0	dB
Rejection (out of $f_c \pm 30.0\text{MHz}$ )	50	60	--	dB
Ripple (with $f_c \pm 3.0\text{MHz}$ )	--	2.0	--	dB
Input/Output Impedance (Nominal)	$150 \ // \ 0\text{pF}$			

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## 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  $VSWR \leq 1.2:1$ . 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.