

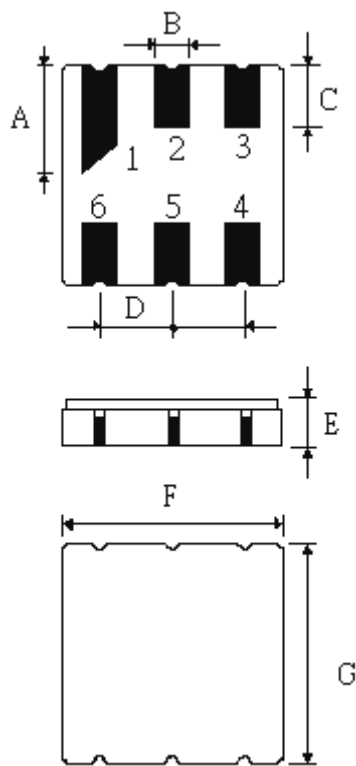
SPECIFICATION OF SAW FILTER

YOKETAN CORP.

Spec no: SM3838F-04650-006-NJ-A

1. Type : SM3838 (Lead Free Parts)

2. Product Dimension



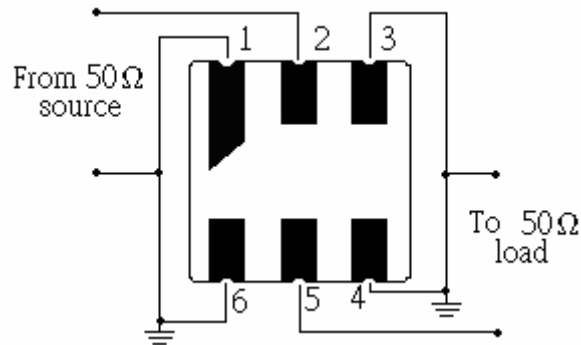
Pin	Connection
2	Input
5	Output
1, 3, 4, 6	Ground

Sign	Data (unit:mm)	Sign	Data(unit:mm)
A	1.90±0.1	E	1.35±0.15
B	0.64±0.1	F	3.80±0.15
C	1.00±0.1	G	3.80±0.15
D	1.27±0.1		

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4. Test Circuit



5. Performance

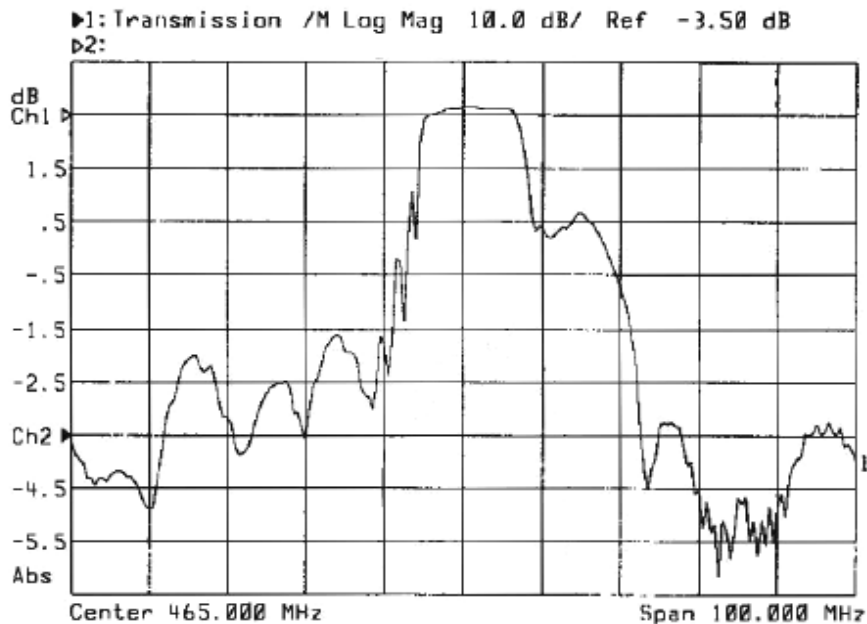
5-1. Maximum Ratings

Rating		Value	Unit
Input Power Level	P	10	dBm
DC Voltage	V_{DC}	12	V
Operable Temperature Range	T_A	-10 to +60	
Storage Temperature Range	T_{stg}	-40 to +85	

5-2. Electronic Characteristics

Item		Min	Typ	Max	Unit
Center Frequency	f_c	--	465.00	--	MHz
User Signal Band	BW	--	± 3.0	--	MHz
Insertion Loss	$/L$				
	$f_c \pm 3.0\text{MHz}$	--	3.5	5.0	dB
Absolute Attenuation					
	DC to $f_c - 30.0\text{MHz}$	40	48	--	dB
	$f_c + 30.0\text{MHz}$ to $f_c + 200.0\text{MHz}$	45	55	--	
Ripple					
	$f_c \pm 3.0\text{MHz}$	--	2.0	--	dB
Input/Output Impedance (Nominal)		50 //0pF			

6. Frequency Response



7. Notice

1. 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.
2. 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.
3. 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:

$$f = f_0 [1 - FTC (T_0 - T_C)^2]$$
4. The specifications of this device are based on the test circuit shown above and subject to change or obsolescence without notice.