

SPECIFICATION OF SAW FILTER

YOKETAN CORP.

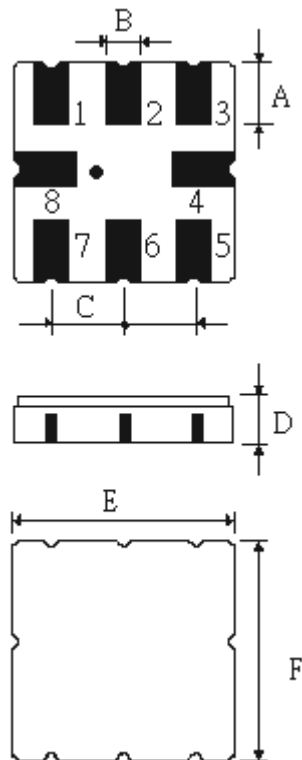
Spec no: SM3838F-03740-023-NJ-A

1. Features

For Wireless LAN applications

2. Type : SM3838 (Lead Free Parts)

3. Product Dimension



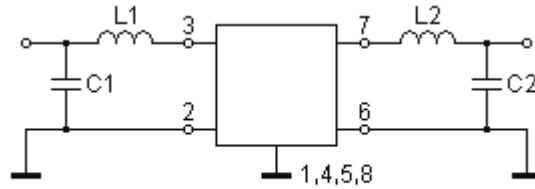
Pin	Connection
2	Input Ground
3	Input
6	Output Ground
7	Output
1,5	To be Ground
4,8	Case Ground

Sign	Data (unit:mm)	Sign	Data(unit:mm)
A	1.00±0.1	D	1.5±0.15
B	0.6±0.1	E	3.80±0.15
C	1.27±0.1	F	3.80±0.15

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4. Matching Network (50Ωunbalanced)



$$L1=L2=33\text{nH} \quad C1=C2=6.8\text{pF}$$

5. Performance

5-1. Maximum Ratings

Rating		Value	Unit
Input Power Level	P	10 max.	dBm
Storage Temperature Range	T_{stg}	-40 to +85	
Operating Temperature Range	T_A	-10 to +85	

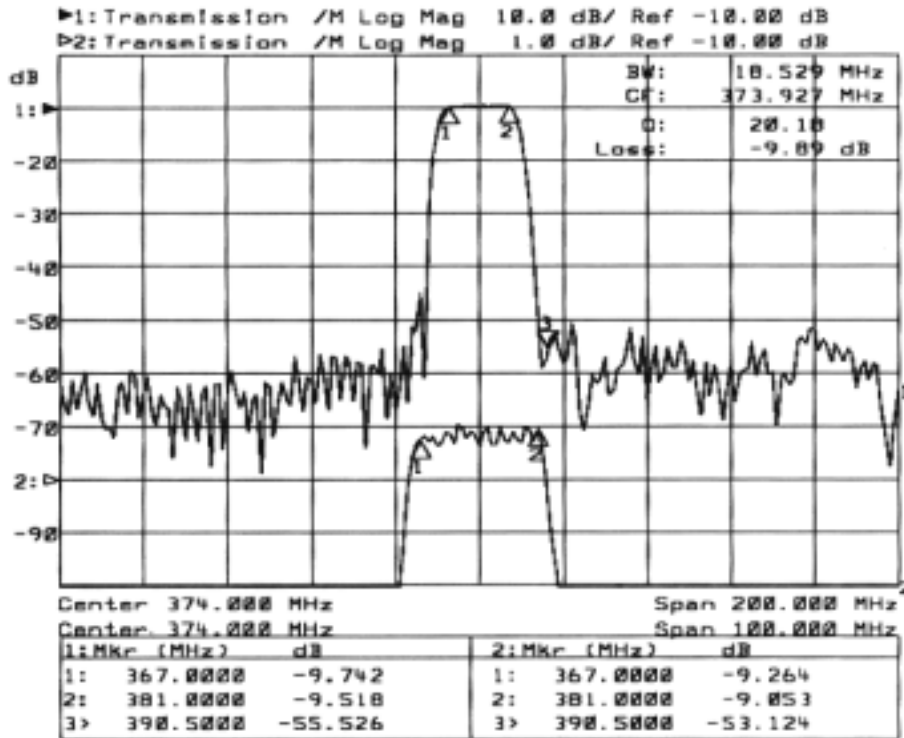
5-2. Electronic Characteristics

Item		Min	Typ	Max	Unit
Center frequency	f_c	--	374.000	--	MHz
Insertion loss (including matching network)	IL	--	9.0	10.5	dB
3dB Bandwidth	BW_3	17	23	--	MHz
Group delay ripple (p-p)	$f_c \pm 7\text{MHz} \quad \Delta\tau$	--	40	100	ns
Triple transit suppression		30	40	--	dB
Relative attenuation (relative to IL)					
a_{rel}					
f_c	$f_c \pm 7.0\text{ MHz}$	--	0.8	1.0	dB
$f_c \pm 7.0\text{ MHz}$	$f_c \pm 8.5\text{ MHz}$	--	--	3.0	dB
$f_c - 100.0\text{ MHz}$	$f_c - 33.0\text{ MHz}$	40	52	--	dB
$f_c - 33.0\text{ MHz}$	$f_c - 22.0\text{ MHz}$	38	50	--	dB
$f_c - 22.0\text{ MHz}$	$f_c - 16.5\text{ MHz}$	30	43	--	dB
$f_c + 16.5\text{ MHz}$	$f_c + 22.0\text{ MHz}$	30	40	--	dB
$f_c + 22.0\text{ MHz}$	$f_c + 43.0\text{ MHz}$	35	46	--	dB
$f_c + 43.0\text{ MHz}$	$f_c + 100.0\text{ MHz}$	38	48	--	dB
Temperature coefficient of frequency	TC_f	--	-94	--	ppm/K

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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.