

SPECIFICATION OF SAW FILTER

YOKETAN CORP.

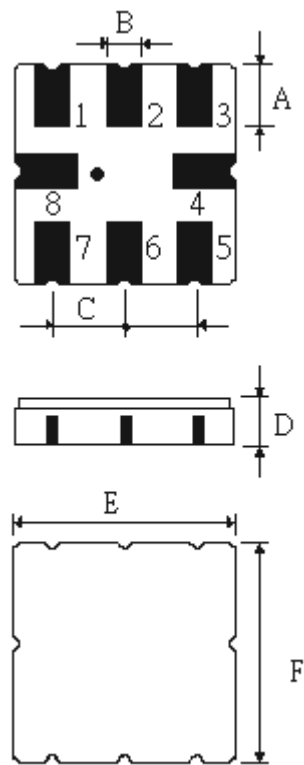
Spec no: SM3838F-09140-001-NJ-A

1. Features

It's designed as RF duplexer for cordless telephone CT1 center frequency is 914.500/959.500MHz.

2. Type : SM3838 (Lead Free Parts)

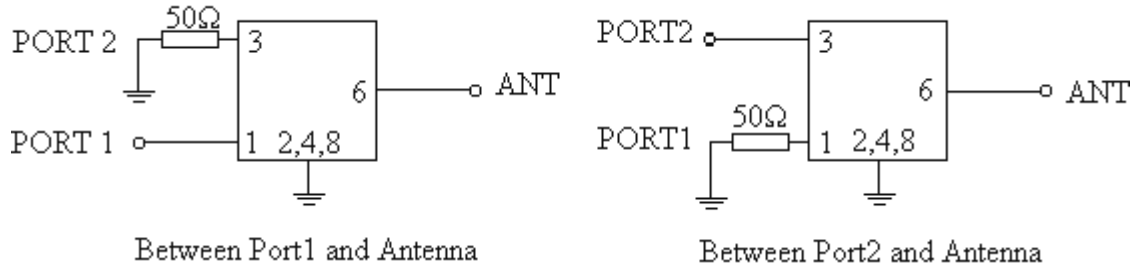
3. Product Dimension



Pin	Connection
6	Ant
1	Port 1 (Rx/Tx)
3	Port 2(Tx/Rx)
5,7	Ant-Ground
2	Port 1-Ground
4,8	Case/Port 2-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

4. Test Circuit



5. Performance

5-1. Maximum Ratings

Rating		Value	Unit
Input Power	P_{in}	15	dBm
Dc Voltage	VDC	3	V
Storage Temperature Range	Tstg	-40 to +85	
Operating Temperature Range	TA	-10 to +60	

5-2. Electronic Characteristics

Item	Min.	Typ.	Max	Units
Center frequency	f_c			
Port 1	--	959.500	--	MHz
Port 2	--	914.500	--	MHz
Insertion Loss	IL			
Port1 : 959.000.....960.000 MHz	--	3.5	4.5	dB
Port2 : 914.000.....915.000 MHz	--	3.5	4.5	dB
Amplitude ripple(p-p)				
Port1 : 959.000.....960.000 MHz	--	0.7	2.0	dB
Port2 : 914.000.....915.000 MHz	--	0.7	2.0	dB
Absolute Attenuation Port 1 914.000.....915.000 MHz	30	35	--	dB
Absolute Attenuation Port 2 959.000.....960.000 MHz	30	35	--	dB
Temperature coefficient of frequency	TC_f	-30	--	ppm/K

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.