

SPECIFICATION OF SAW FILTER

YOKETAN CORP.

Spec no: SM3030F-18425-075-NJ-A

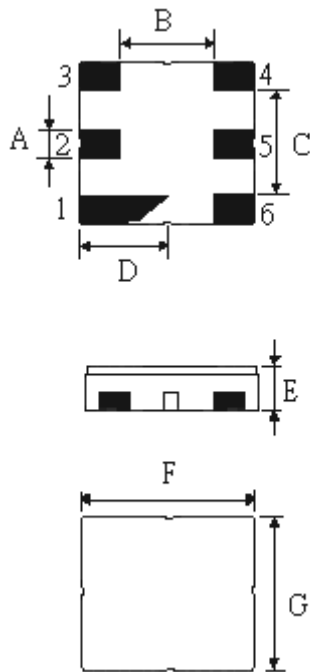
1. Features

Low-Loss.

RF filter for mobile telephone PCN system.

2. Type : SM3030 (Lead Free Parts)

3. Product Dimension



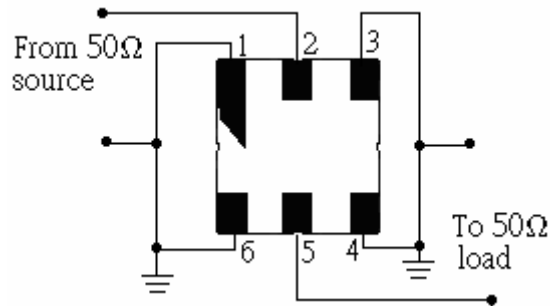
Pin	Connection
2	Input / Output
5	Output / Input
1,3,4,6	Case Ground

Sign	Data (unit:mm)	Sign	Data(unit:mm)
A	0.6±0.1	E	1.1±0.2
B	1.5±0.1	F	3.0±0.15
C	1.8±0.1	G	3.0±0.15
D	1.5±0.15		

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4. Test Circuit



5. Performance

5-1. Maximum Ratings

Rating	Value	Units
Input Power Level	10	dBm
DC Voltage	5	V
Storage Temperature Range	-40 to +85	
Operating Temperature Range	-10 to +65	

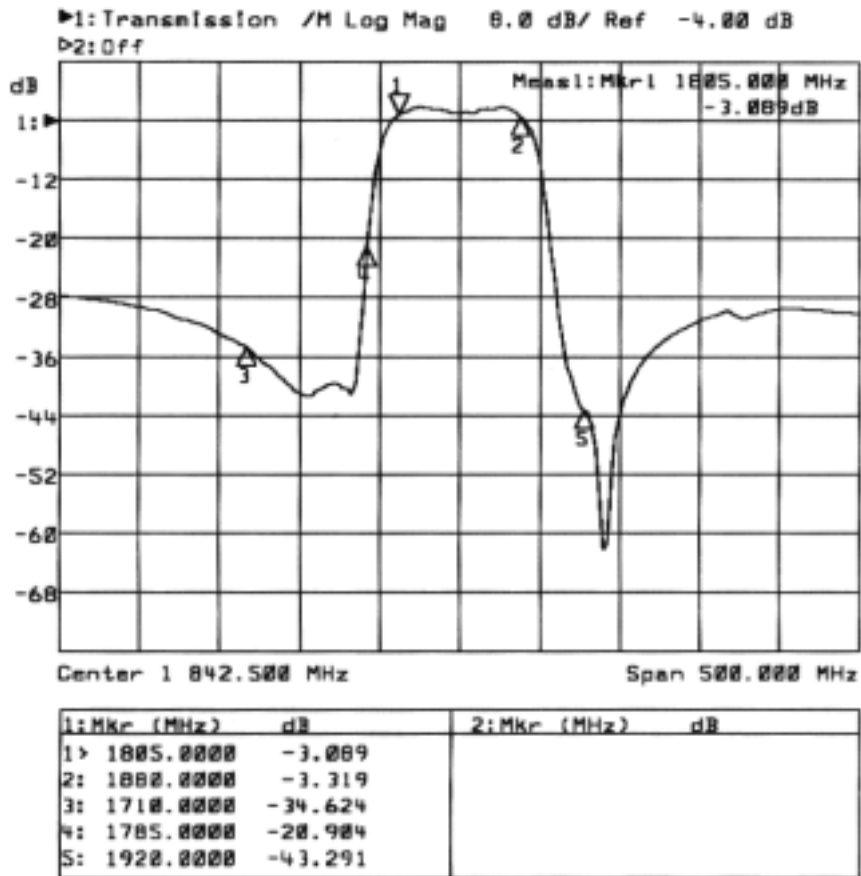
5-2. Electronic Characteristics

Item	Min	Typ	Max	Unit
Center Frequency f_c	--	1842.5	--	MHz
Insertion Loss IL 18051880 MHz	--	3.5	5.0	dB
Absolute Attenuation α				
DC 1500 MHz	20	22		
1600 1710 MHz	22	25	--	dB
1710 1785 MHz	10	20	--	dB
1920 2400 MHz	24	27	--	dB
3610 3760 MHz	20	25	--	dB
5415 5640 MHz	10	15		
Amplitude Ripple (p-p) α 1805 1880 MHz	--	1.8	2.5	dB
Input / Output Impedance (Nominal)	50			

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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.