

SPECIFICATION OF SAW FILTER

YOKETAN CORP.

Spec no: SM3030F-08365-035-NJ-A

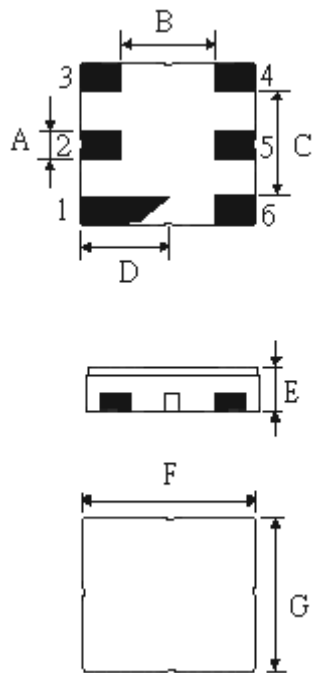
1. Features

Low-Loss.

RF filter for AMPS , CDMA and TDMA application.

2. Type : SM3030 (Lead Free Parts)

3. Product Dimension



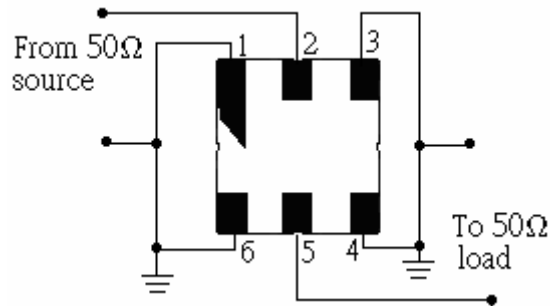
Pin	Connection
2	Input / Output
5	Output / Input
1,3,4,6	Case Ground

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



No impedance matching required for operation at 50

5. Performance

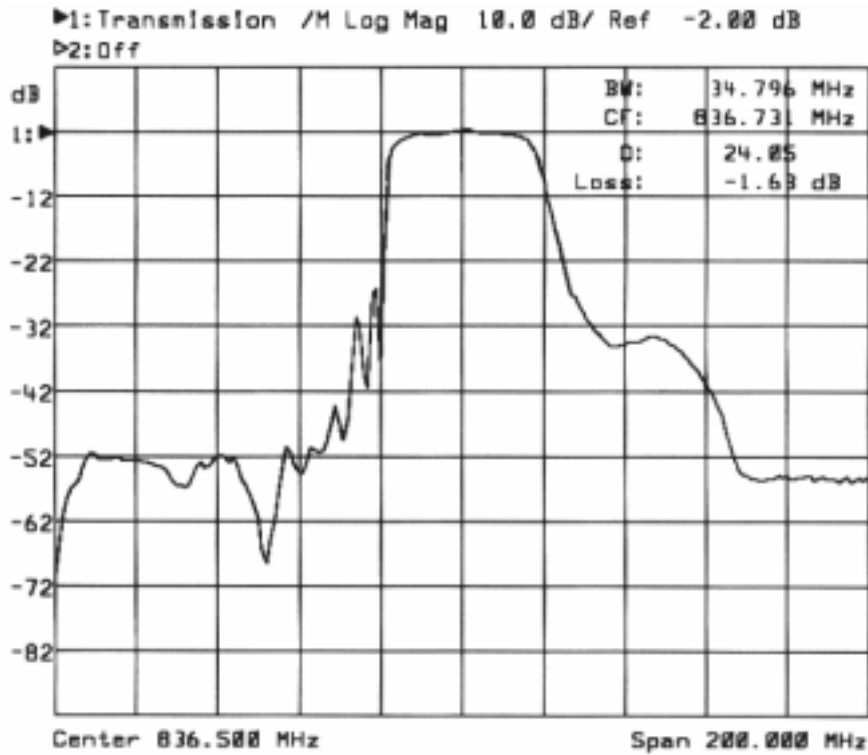
5-1. Maximum Ratings

Rating	Value	Units
Input Power Level	10	dBm
DC Voltage	12	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	--	836.500	--	MHz
3dB Bandwidth BW_3	--	± 17.4	--	MHz
Usable Bandwidth BW_{UES}	--	± 12.5	--	MHz
Insertion Loss IL 824.00 MHz 849.00 MHz	--	2.7	3.5	dB
Amplitude Variation (p-p) $\Delta \alpha$ 824.00 MHz 849.00 MHz	--	0.85	1.5	dB
Absolute Attenuation α DC 800.00 MHz		40		
869.00 MHz 925.00 MHz		28		
925.00 MHz 2000.0 MHz		40		

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.