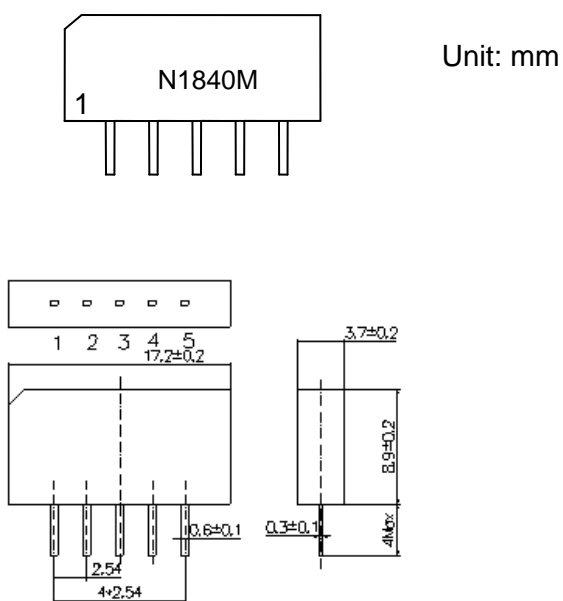




Range:

This specification shall cover the characteristics of SAW filter Strong's P/N: SN0739M(N1840M)

1. Package Dimension



Pin No.	Functions
1.	Input
2.	Input - ground
3.	Chip carrier - ground
4.	Output
5.	Output

2. Marking

N1840M . Model

1 . Pin 1

3. Performance

3.1 APPLICATION: TV IF Filter for Audio Applications

3.2 MAXIMUM RATINGS

DC voltage	V_{DC}	12	V	Between any terminals
AC voltage	V_{PP}	10	V	Between any terminals
Operating Temperature Range	T_A	-25~65	°C	
Storage Temperature Range	T_{stg}	-40~85	°C	

3.3 Electronic Characteristics

Reference temperature: $T_a=25^{\circ}\text{C}$

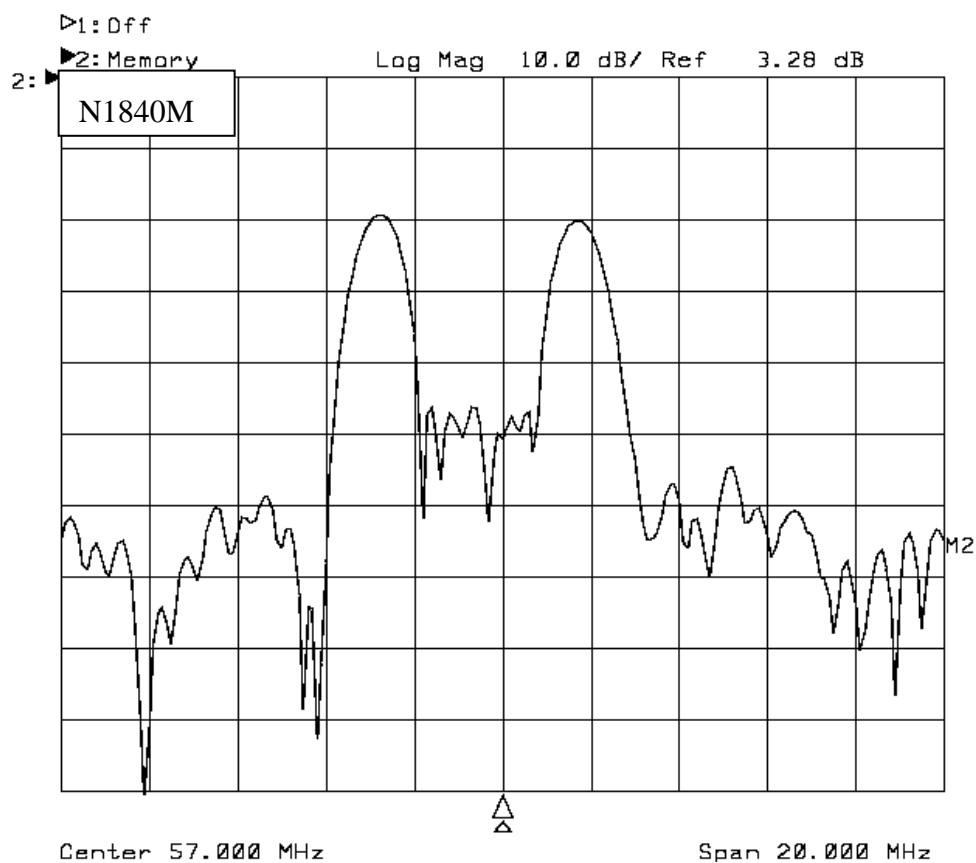
Terminating source impedance $Z_S=50\Omega$

Terminating load impedance $Z_L=2k\Omega//3\text{ pF}$

3.4.1 Amplitude Characteristics

FREQUENCY(MHz)		VALUE			unit
		Min	Typ.	Max.	
Reference Frequency	58.83MHz		0		
Color carrier	55.25 MHz	19	-	-	dB
Sound carrier	54.33 MHz	-2.4	-0.4	1.6	dB
Adjacent picture carrier	52.83 MHz	39.0	-	-	dB
Adjacent picture carrier	60.33 MHz	28.0	-	-	dB
Lower sidelobe:	45.08-52.83 MHz	34.0	-	-	dB
Upper sidelobe:	60.33-65.08 MHz	26.0	-	-	dB
Impedance at 58.83MHz					
Input Impedance		1.3 10.2			$K\Omega \text{pF}$
Output Impedance		3.3 1.5			$K\Omega \text{pF}$
Temperature coefficient	TC	-	-72	-	ppm/K

3.4 Frequency Characteristics



4. Test Circuit

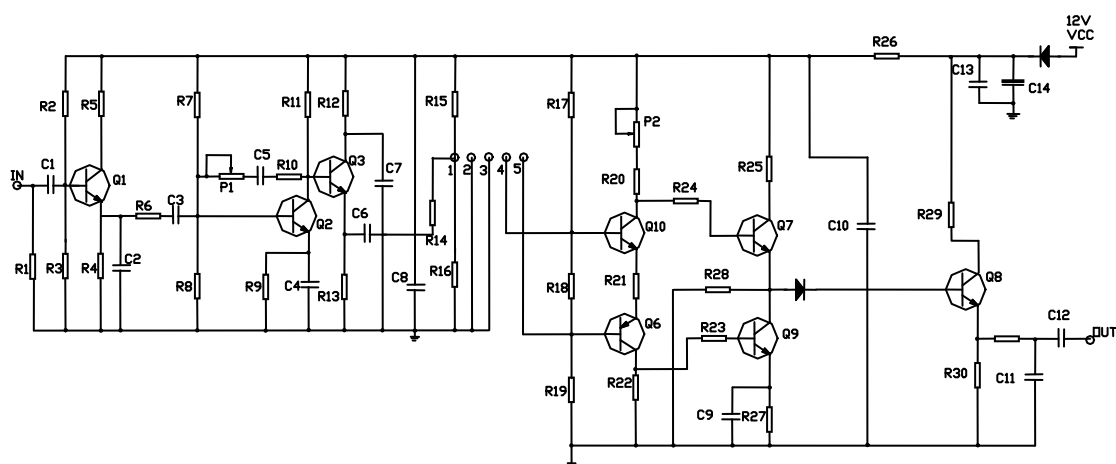


Fig.1 Test Circuit

5. RELIABILITY TEST

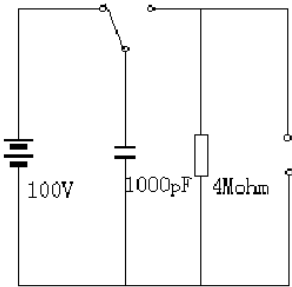
5.1 Environmental Performance Characteristics

Item Test condition	Allowable change of absolute Level at center frequency(dB)
High temperature test 70°C 1000H	< 1.0
Low temperature test -40°C 1000H	< 1.0
Humidity test 40°C 90-95% 1000H	< 1.0
Thermal shock -20°C==25°C==80°C 20 cycle 30M 10M 30M	< 1.0
Solder temperature test Sold temp.260°C for 10 sec.	< 1.0
Soldering Immerse the pins melt solder at 260°C+5/-0°C for 5 sec.	More then 95% of total area of the pins should be covered with solder

5.2 Mechanical Test

Item Test condition	Allowable change of absolute Level at center frequency(dB)
Vibration test 600-3300rpm amplitude 1.5mm 3 directions 2 H each	<1.0
Drop test On maple plate from 1 m high 3 times	<1.0
Lead pull test Pull with 1 kg force for 30 seconds	<1.0
Lead bend test 90° bending with 500g weigh 2 times	<1.0

5.3 Voltage Discharge Test

Item	Allowable change of absolute
Test condition	Level at center frequency(dB)
<p>Surge test</p> <p>Between any two electrode</p> 	<p><1.0</p>

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