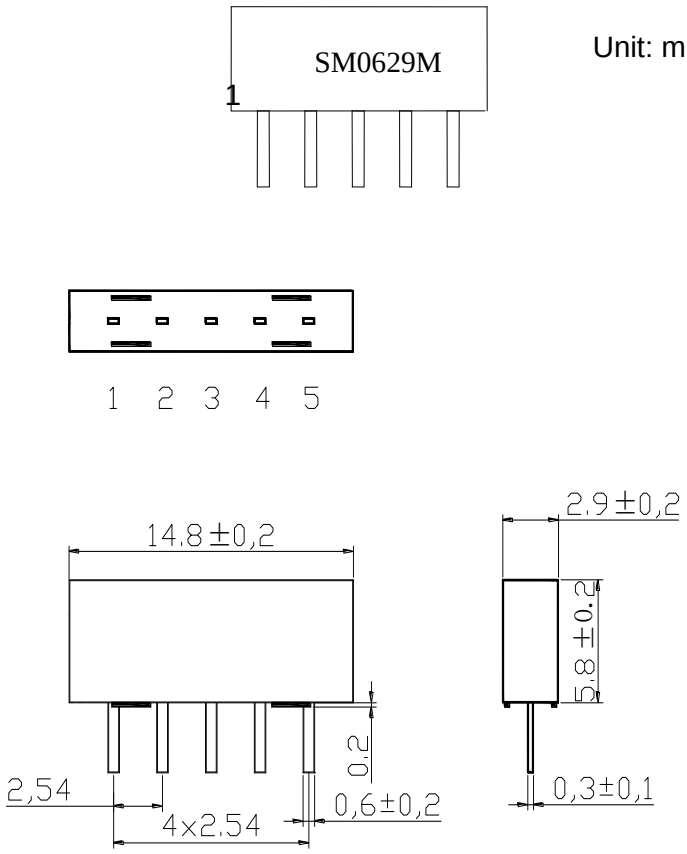
1. Package Dimension



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

2. Marking

S .TRADE MARK
M0629M . Model

1 . Pin 1

3. Performance

3.1 APPLICATION: TV IF Filter for Video Applications

3.2 MAXIMUMRATINGS

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	℃	
Storage Temperature Range	T_{stg}	-40~85	℃	

3.3 Electronic Characteristics

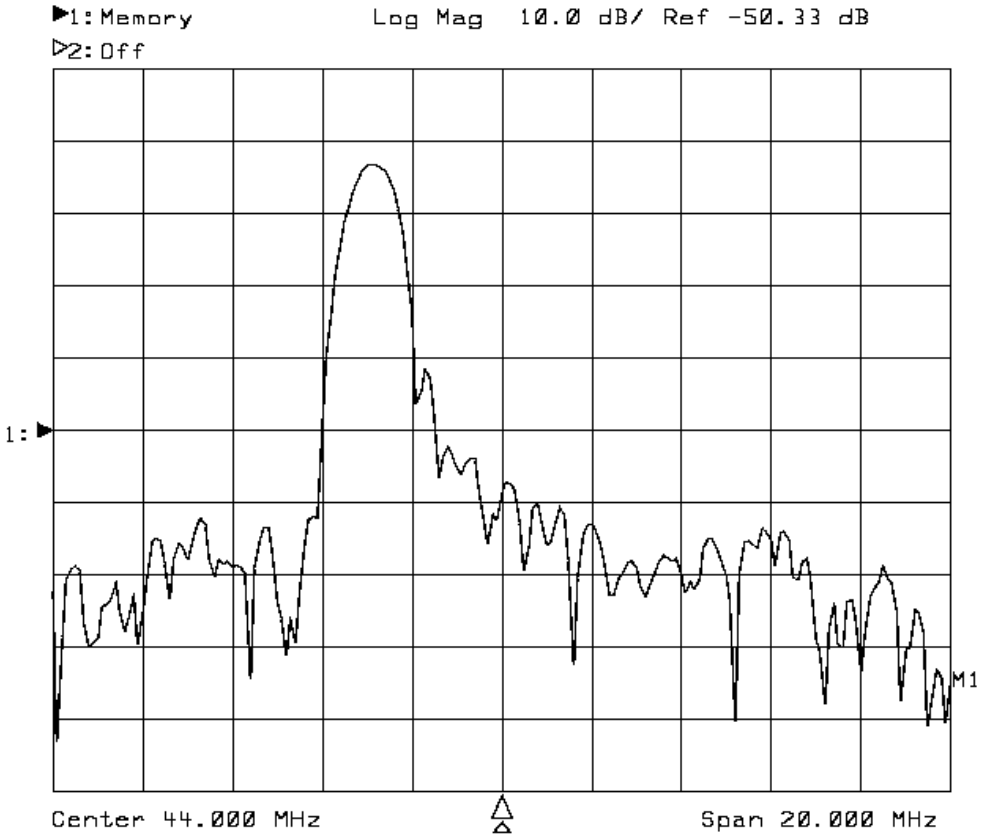
Reference temperature: Ta=25℃
Terminating source impedance Z_S=50Ω
Terminating load impedance Z_L=2kΩ//3 pF

Amplitude Characteristics

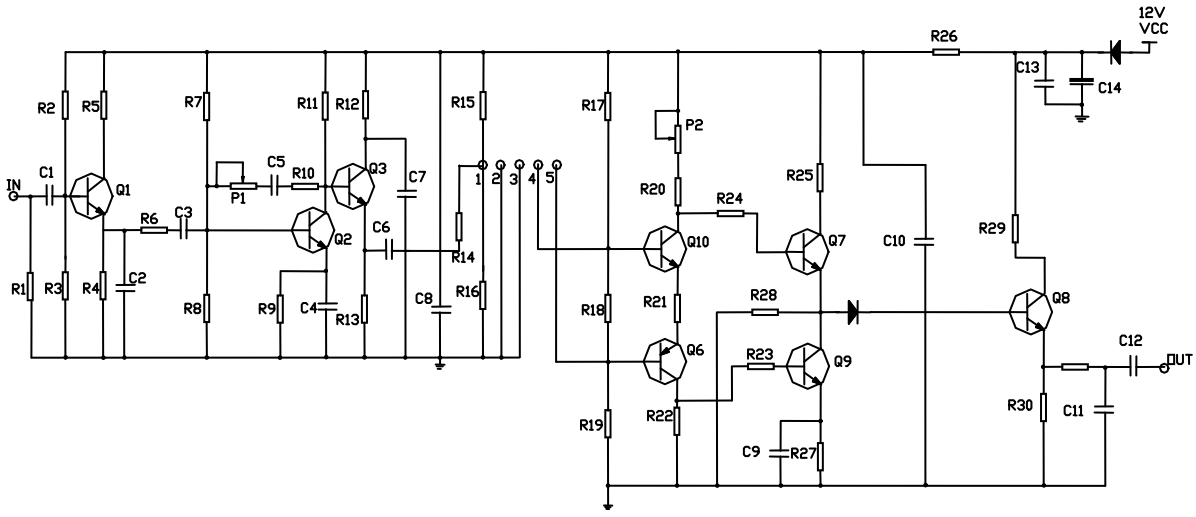
M/N

FREQUENCY(MHz)	VALUE			UNIT
	Min	Typ.	Max.	
Reference Frequency 41.25MHz		0		
Picture carrier 45.75MHz	45.0	53.0	-	dB
Color carrier 42.17 MHz	25.0	31.0	-	dB
Adjacent picture carrier 39.75 MHz	44.0	52.0	-	dB
Adjacent sound carrier 47.25MHz	44.0	50.0	-	dB
Lower sidelobe: 35.00-39.75 MHz	38.0	48.0	-	dB
Upper sidelobe: 45.75-55.00MHz	38.0	45.0	-	dB
Group delay ripple (p-p)	-	50	-	ns
Impedance at 41.31 MHz Input Impedance Output Impedance		0.4|| 14.7 1.0 || 3.6		 KΩ || pF KΩ || pF
Temperature coefficient TC	-	-72	-	ppm/K

3.4 Frequency Characteristics



3.6 Test Circuit



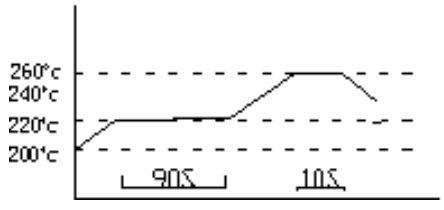
Test Circuit

5 ENVIRONMENTAL CHARACTERISTICS

5.1 Humidity, temperature Test

ITEM	REQUIREMENT	JUDGEMENT
High temperature storage	T=+85±2℃ Duration time 500H Being placed in natural condition for 2±.5hours	1.No visible damage clear marker 2. Other electric characteristics should be fit for the provided characteristics in the form 3.4 after testing
Low temperature storage	T= -40±3℃ Duration time 500H Being placed in nature condition for 2±5hours	
High-low temperature cycle	It shall be placed at temperature of -40℃±3℃ for 30 minutes, then within 3 minutes replaced at temperature of +85℃±2℃ for 30 minutes, and vice versa. Totally cycle 100 times. It shall be placed in natural condition for 2±0.5 hours.	
Humidity resistance test	T=60℃±2℃, RH=90~95% Duration time 500H.Being placed in natural condition for 2±0.5 hours	

5.2 Solder-heat Resistance Test

ITEM	REQUIREMENT	JUDGEMENT
Solder-heat Resistance	1. Soldering trough: The 1mm thick PCB fixed with device are immersed in solder trough of 260±5℃ for 10±1 seconds. And then it shall be measured after being placed in natural condition for2±0.5 hours. 2. Manual soldering with electrical soldering iron: T=350±10℃ for 3-4 seconds. And then it shall be measured after being placed in natural condition for 2±0.5hours	Same as judgement of 5.1
solderability	Lead terminals are immersed in solder bath of 245±5℃ for 3-5 seconds.	The solder shall cover at least 80% of the lead terminal
reflow soldering	Repeated 3 times after being on PCB under following condition: 	Same as judgement of 5.1

5.3 Mechanical Test

ITEM	REQUIREMENT	JUGEMENT
Vibration Fatigue and terminal Strength test	Force 10±1seconds of 19.6N applied to each terminal in axial direction. Lead terminals shall be folded up to 45ºwith 5N force, then folded back to their axial direction 2 times(except SMD) It shall be measured after being applied vibration of amplitude of 1.5mm with 10 to 55Hz of vibration frequency to each of 3 perpendicular directions for 2 hours.	Same as judgement of 5.1
Drop test	It shall be measured after 10 times random drop from the height of 1 m onto the 20mm thicker hard wood floor.	
Mechanical Shock	The components shall remain within the electrical specifications after 1000 shocks, acceleration 392 m/s^2, duration 6 milliseconds.	