



1. Package Dimension



Pin No. Functions

- 1. Input
- 2. Switching- Input
- 3. Chip carrier-Ground
- 4. Output
- 5. Output

2. Marking

S	.TRADE MARK
M6046M	. Model

1 . Pin 1

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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	e T _A	-25~65	°C	
Storage Temperature Range	T_{stg}	-40~85	°C	

3.3 Electronic Characteristics Reference temperature:

Amplitude Characteristics

M/N

FREQUENCY(MHz)	VALUE			UNIT
	Min	Тур.	Max.	
Insertion attenuation 44.06(44.00) MHz	10.6	12.6	14.6	dB
Reference Frequency 44.06(44.00) MHz		0		
Picture carrier 45.81(45.75) MHz	5.2	6.2	7.2	dB
Color carrier 42.23(42.17) MHz	-1.3	0.2	1.7	dB
Color carrier 41.98(41.92) MHz	-0.6	0.9	2.4	dB
Sound carrier 41.31(41.25) MHz	22.0	35.0	-	dB
Adjacent picture carrier 39.81(39.75) MHz	44.0	55.0	-	dB
Adjacent sound carrier 47.31(47.25) MHz	43.0	53.0	-	dB
Lower sidelobe: 35.06(35.00) -39.81(39.75) MHz	39.0	43.0	-	dB
Upper sidelobe: 47.31(47.25) -55.06 (55.00) MHz	36.0	41.0	-	dB
Reflected wave signal suppression	42.0	50.0	-	dB
Feedthrough signal suppression	50.0	56.0	-	dB
Group delay ripple (p-p)	-	40	-	ns
Impedance at 44.06 MHz				
Input Impedance		1.1 15.6		KΩ pF
Output Impedance		1.0 4.0		KΩ pF
Temperature coefficient TC	-	-72	-	ppm/K

3.4 Frequency response



4. Test Circuit



Test Circuit

5 ENVIRONMENTAL CHARACTERISTICS

5.1 Humidity, temperature Test

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

5.2 Solder-heat Resistance Test

ITEM	REQUIREMENT	JUDGEMENT
Solder-heat Resistance	The 1mm thick PCB fixed with device are immersed in solder trough of 260±5°C for 10±1 seconds. And then it shall be measured after being placed in natural condition for2±0.5 hours.	Same as judgement of 6.1
solderability	Lead terminals are immersed in solder bath of 245±5°C 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 6.1

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 45°with 5N force, then folded back to their axial direction 2 times. 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
Drop test	It shall be measured after 10 times random drop from the height of 1 m onto the 20mm thicker hard wood floor.	of 6.1
Mechanical Shock	The components shall remain within the electrical specifications after 1000 shocks, acceleration 392 m/s ² , duration 6 milliseconds.	

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