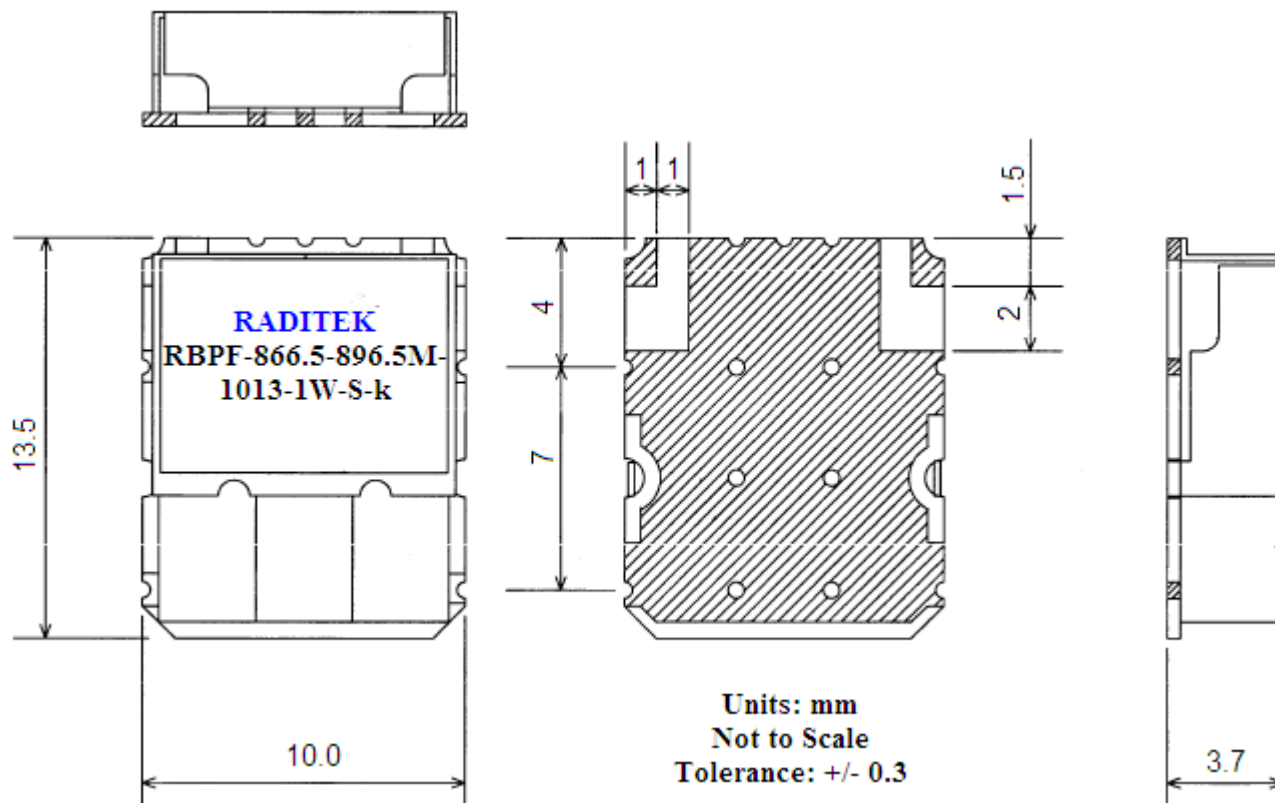


RADITEK INC.

Ceramic Band Pass Filter

code-k

866.5MHz to 896.5MHz, Model 1013, 1 Watt, Surface Mount
RBPF-866.5-896.5M-1013-1W-S-k



Specifications		Units
Center Frequency	881.5	MHz
Band Pass Width	866.5-896.5	MHz
Insertion Loss	1.7	dB Max
Ripple	0.2	dB Max
Return Loss	18	dB Min
Attenuation	7 @ 849MHz	dB Min
Permissible Input Power.	1	Watts Max
Operating Temp	-30 to +85	°C
Storage Temp	-40 to +85	°C
I/O Impedance	50	Ω
Size		mm

RBPF-866.5-896.5M-1013-1W-S-k

Specifications may be subject to change

05/22/08

WORLD HQ: 1702L Meridian Ave. Suite 127, San Jose, Ca 95125, U.S.A.

Telephone: (408) 266-7404 FAX: (408) 266-4483

WEB: www.raditek.com, E-mail: sales@raditek.com

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1. ENVIRONMENTAL SPECIFICATIONS

1-1. TEST CONDITIONS

BASIC CONDITIONS : Temperature 20°C, relative humidity 65% RH

STANDARD CONDITIONS : Temperature Range 5~35°C

Humidity Range 45~85%

unless otherwise specified for the test and judgment

1-2. ENVIRONMENTAL PERFORMANCE

1-2-1. TEMPERATURE CHARACTERISTICS

TABLE 1 should be satisfied at temperatures ranging from -30°C to +85°C

1-2-2. HEAT RESISTANCE

Leave the product in the test bath at temperatures +85°C ±2°C for 72±2hours. Take it out leave it in a stationary state for 1 to 2 hours. Then it should satisfy the TABLE 1.

1-2-3. COLD RESISTANCE

Leave the product in the test bath at temperatures -40°C ±5°C for 72±2hours. Take it out leave it in a stationary state for 1 to 2 hours. Then it should satisfy the TABLE 1.

1-2-4. MOISTURE RESISTANCE

Leave the product in the test bath at temperatures -40°C ±2°C and humidity 90 to 95% for 48±2hours. Take it out leave it in a stationary state for 1 to 2 hours. Then it should satisfy the TABLE 1.

1-2-5. HEAT IMPACT RESISTANCE

Test the product at low temperature(-40°C ±5°C) and high temperature(+85°C ±2°C) for 30±2 min. each by 5 cycles, and leave it in a stationary state for 1 to 2 hours. Then it should satisfy the TABLE 1.

1-2-6. SOLDERABILITY

Leave it at temperatures shown in FIG.1 for specified length of time. Solder shall be sticking to more than 95% of the part.

Solder : Pb (37 to 38 %) / Sn (62 to 63 %)

Flux : RMA (9 to 11 %)

1-2-7. VIBRATION RESISTANCE

Test the product by vibration of full amplitude 1.5 mm at 5Hz ~ 55Hz and acceleration 49m/s² at 55 ~ 150 Hz by sweep 0.1 oct/min. for 2 hours each in the direction of x, y, z. Then it should satisfy the TABLE 1.

1-2-8. IMPACT RESISTANCE

Apply impact of maximum acceleration 200 m/s² and sine half-wave (working time 7~ 11m/s) to the product, 3 times each in six different directions. Then it should satisfy the TABLE 1.

1-2-9. SOLDERING HEAT RESISTANCE

Leave it at temperatures shown in FIG.2 for specified length of time. After two cycle of this operation, keep it in standard conditions for 1 to 2 hours. Then it should satisfy the TABLE 1.

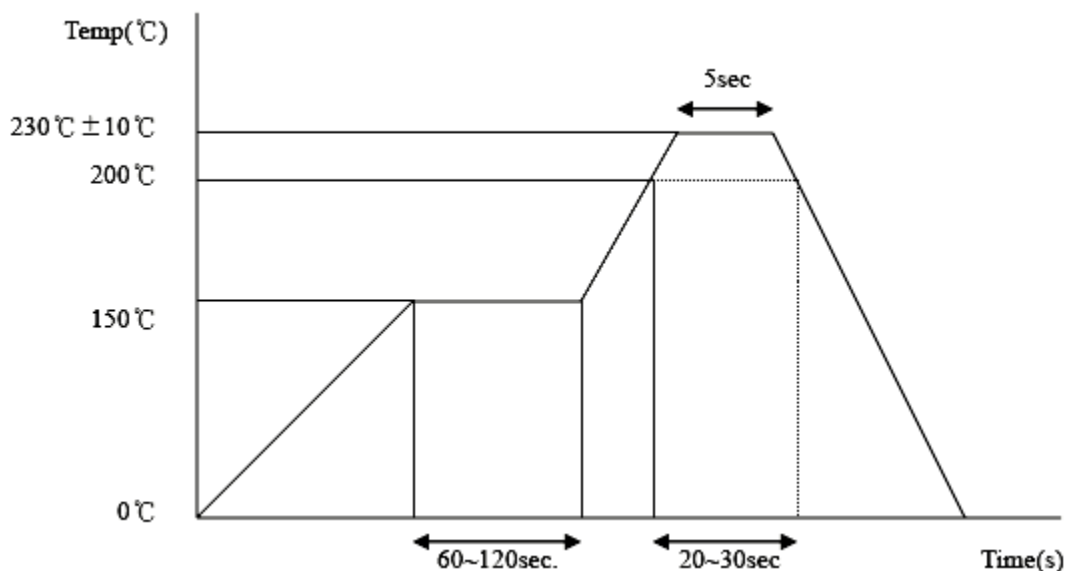
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FIG.1 RECOMMENDED TEMPERATURE PROFILE



1-2-10. SHOCK RESISTANCE (DROP)

Install the product in the real unit dummy(159 g) and let it drop under the following conditions.
Then it should satisfy the TABLE 1.

- On p-tile : 150 cm. 6surfaces. 5 time each

MATERIALS

FIG.2

NO	Name	Composition Material
1	RESONATOR	DIELECTRIC MATERIAL
2	NUMBER of POLES	3POLE
3	IN/OUTPUTTERMINALS	C5 194 Ag PLATED
4	GROUND BASE	C5 194 Ag PLATED

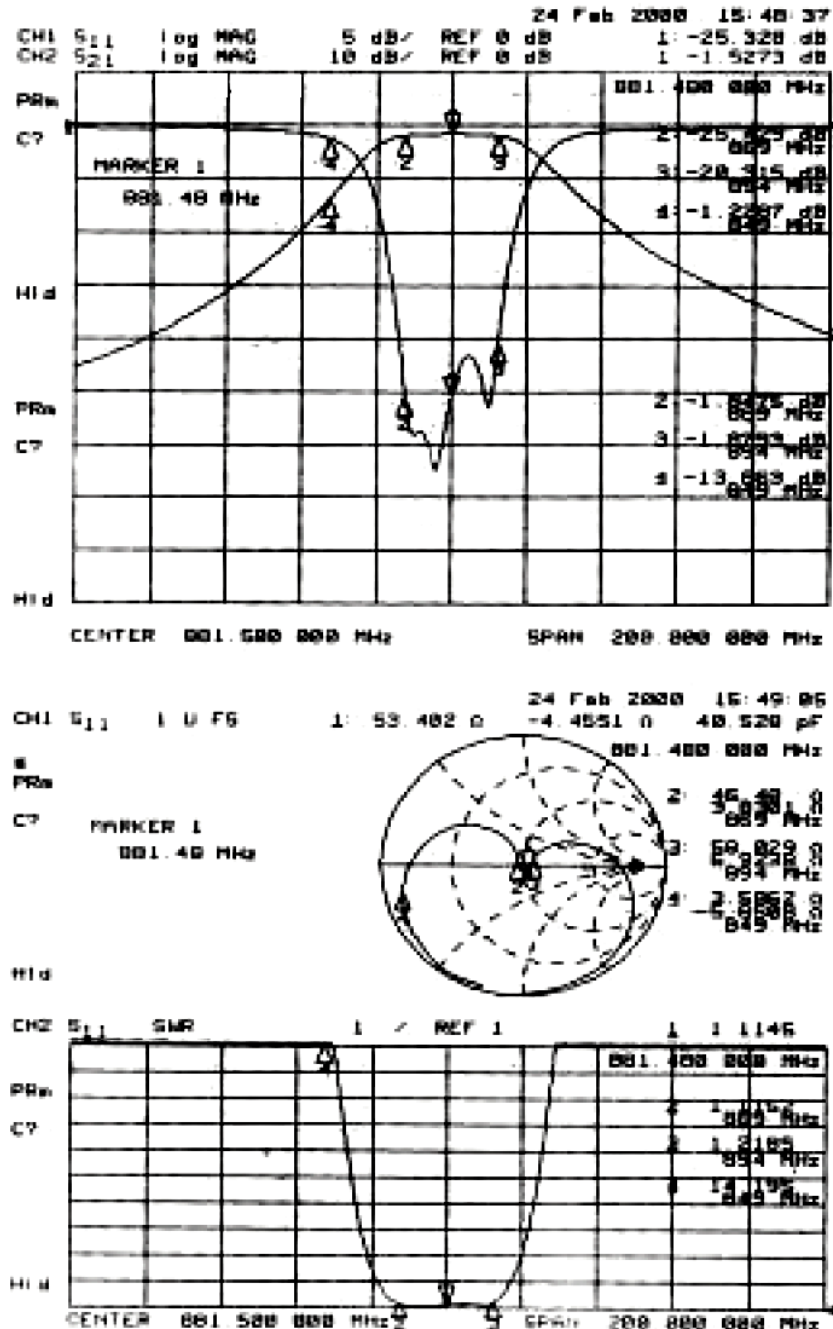
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DIAGRAM



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