RFM Integrated Device, Inc.

PRODUCT SPECIFICATION

Part Number: CDR6004

DR Filter, GNSS, 1475 MHz, BW 100, IL 2

ELECTRICAL CHARACTERISTICS

This filter satisfies Table 1 at Temperature Range : -30 to +85℃

CENTER FREQUENCY : fo=1475MHz

PASSBAND WIDTH : fo ±50 MHz

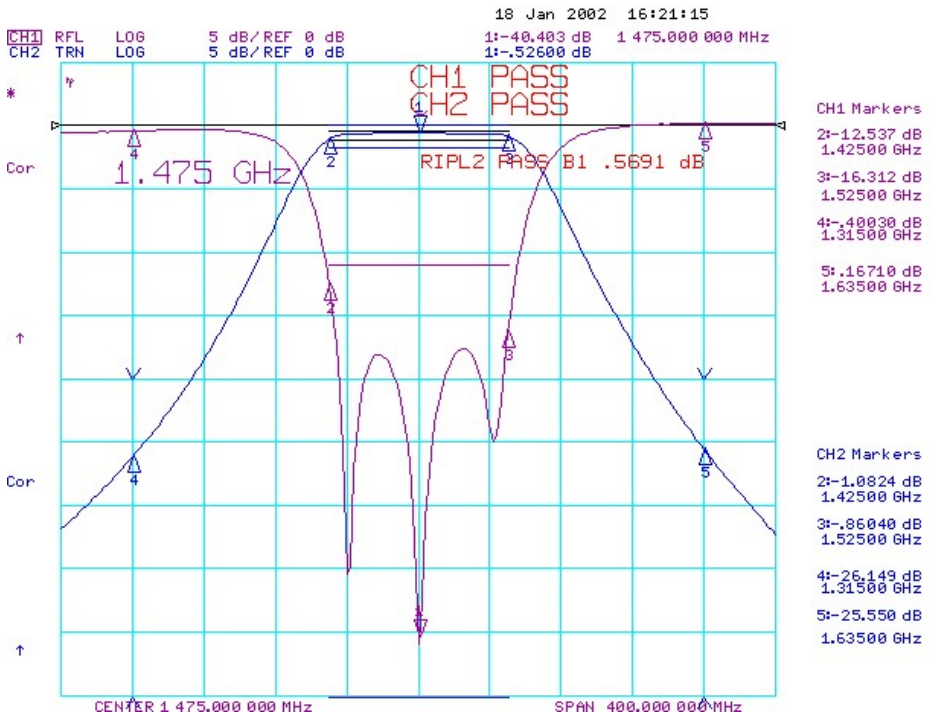
INPUT/OUTPUT IMPEDANCE : 50Ω

Max. INPUT POWER : 1 W

TABLE 1

NO.	ITEM		SPECIFICATION
1	PASS BAND INSERTION LOSS		2.0 dB or less
2	PASS BAND RIPPLE		1.0 dB or less
3	PASS BAND RETURN LOSS		9.6 dB or more
4	STOP—BAND ATTENUATION	at fo-160MHz	19dB or more
		at fo+160MHz	19dB or more
Item NO.4 specifies the absolute value of attenuation.			

ELECTRICAL RESPONSE



4.RELIABILITY

4-1.STANDARD CONDITION

This standard shall satisfy the condition of Table 1 after the following test 4-2.

4-2.TEST METHOD

The filter shall withstand the following test condition.

4-2-1.Low temperature hold test :-40℃

Unit shall be subjected to the above condition for 10 hours and then be left for more than 2 hours at room temperature.

4-2-2.High temperature hold test:+85℃

Unit shall be subjected to the above condition for 10 hours and then be left for more than 2 hours at room temperature.

4-2-3.Humidity soak test : 60±2℃,90～95% relative humidity.

Unit shall be subjected to the above condition for 24 hours and then be left for more than 2 hours at room temperature.

4-2-4.Vibration test

The vibration of 5 G acceleration (Freq. 5 to 500Hz) and the sweep (0.1 octave per minute) are applied in three directions for 2 hours each.

4-2-5.Shock test

A half sine wave shock with a maximum acceleration of 30 G/11 msec. Is applied in six directions at right angles to each other by three times each.

4-2-6.Heat test

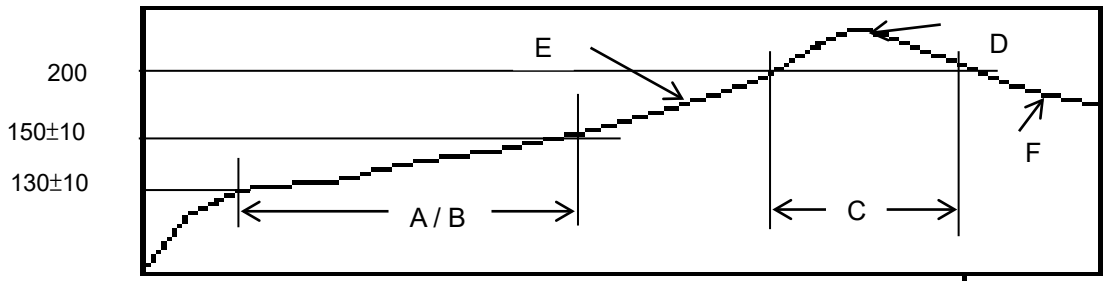
After the lead pins of the unit are soaked in solder bath at 270 ±10℃ for 5 seconds and then be left for more than 1 hour at room temperature.

5.OTHER

In case of any problem regarding this specification, both customer and manufacturer shall discuss and solve it.

2.SOLDERING CONDITION (RECOMMENDED)

SOLDER TEMPERATURE PROFILE (Reflow Soldering)



A : Preheating Times → 80～120 Sec.　　B : Preheating Times → 40～80 Sec.

C : Soldering Time → 20～30 Sec.　　D :Top Temp. →220±10 ℃

E : Max.→ 10℃／Sec.　　F : Max. → 8℃／Sec.

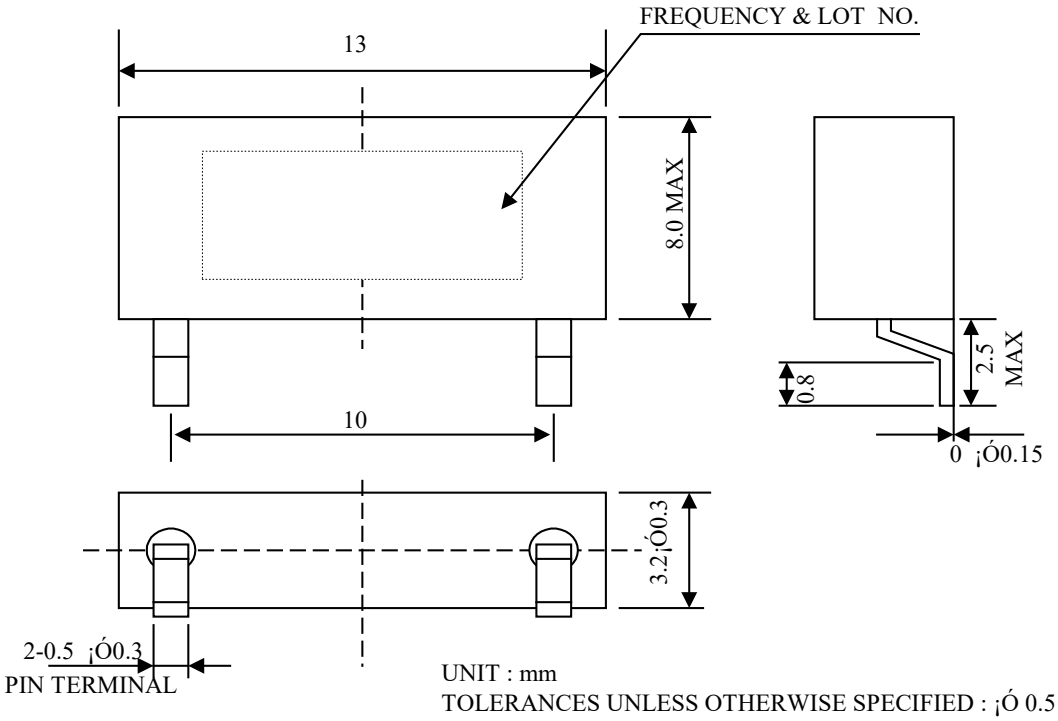
Composition of Cream Solder : 62Sn／36Pb／2Ag

Soldering with iron

Soldering condition : Soldering iron temperature 270±10 ℃

Soldering time less than 3 seconds.

3. SHAPE AND DIMENSION



UNIT : mm

TOLERANCES UNLESS OTHERWISE SPECIFIED : ¡Ó 0.5