Approval Specification

TO:

Part No: DSF446.0B02-TD01

Customer's Part No:

Customer's Approval Certificate

Please return this copy as a certification of

Your approval

Checked & Approval by:

Date:

CETC DEQING HUAYING ELECTRONICS CO., LTD.
Zhiyuan Road Wukang Deqing County Zhejiang Province P.R.C
Tel: 0086-572-8281127 Fax: 0086-572-8281298
E-mail: dqsaw@dqhuaying.com

Approved by:
Checked by:
Issued by:

SPECIFICATION

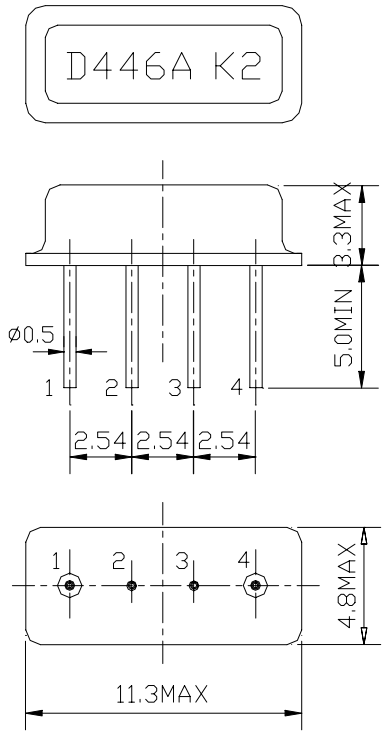
MODEL D446A

SURFACE ACOUSTIC WAVE FILTER

1. Package Dimension

(F-11)

Unit: mm



Pin No.	Function
1.	Input
2.	Ground
3.	Ground
4.	Output

2. Marking

D	446	A	K2
(1)	(2)	(3)	(4)

(1) D: Manufacture's logo
(2) 446: Center frequency (MHz)
(3) A: Series code
(3) K2: Date code

K — Month code
2 — Last figure of year

Month	1	2	3	4	5	6	7	8	9	10	11	12
Month code	A	B	C	D	E	F	G	H	I	J	K	L

EX: "K2" means November of 2002

3. Performance

3.1 Application

RF Filter for Telecommunications.
Center Frequency: 446.0 MHz.

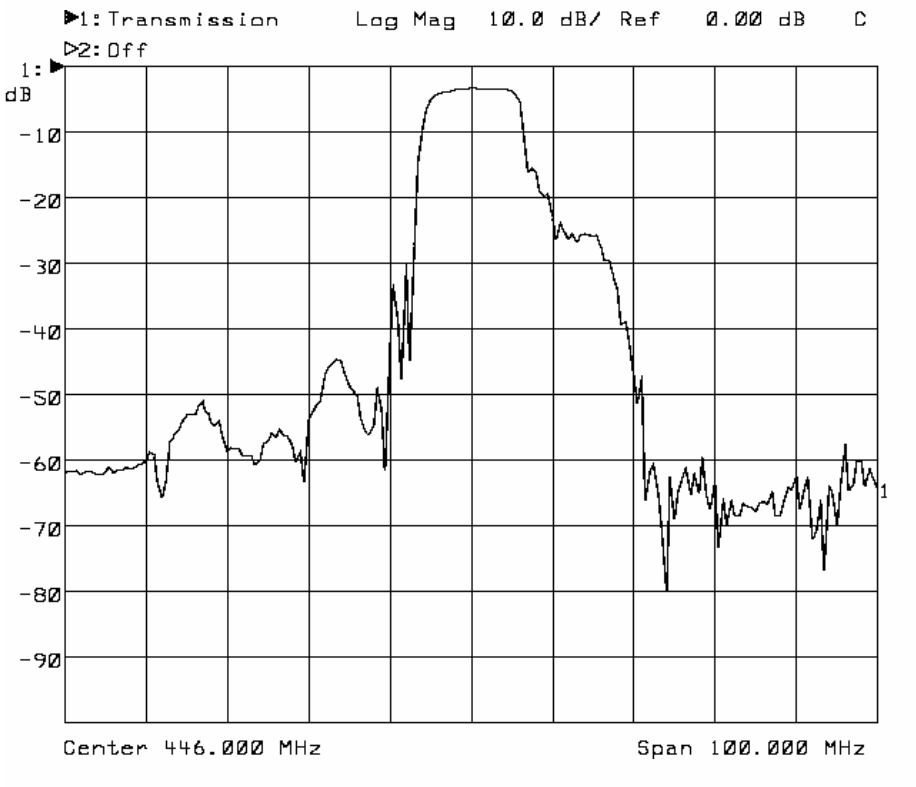
3.2 Maximum Rating

Operation Temperature Range	-10℃ to +50℃
Storage Temperature Range	-40℃ to +85℃
DC Permissive Voltage	10V DC max.
Maximum Input Power	0 dBm

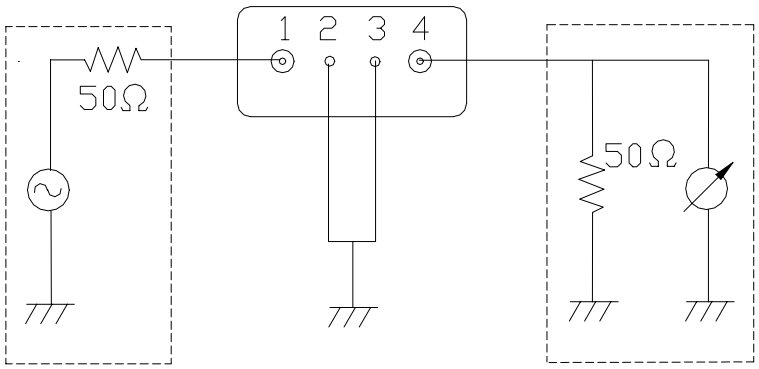
3.3 Electronic Characteristics

Item	Frequency (MHz)	Specification
Center Frequency (fo)	446.0	
Passband Width	fo±2.0	
Insertion Loss	Passband	4.5 dB max.
Ripple Deviation	Passband	2.0 dB max.
Stop Band Suppression	fo-100 ~ fo-40.8 fo+40.8 ~ fo+100	50 dB min. 50 dB min.
Terminating Impedance		50Ω / 0pF

3.4 Frequency Characteristics



3.5 Test Circuit



4. Reliability

4.1 Mechanical Shock: The components shall remain within the electrical specifications after 1000 shocks, acceleration 392 m/s^2, duration 6 milliseconds.

4.2 Vibration Fatigue: The components shall remain within the electrical specifications after loaded vibration at 10 ~ 120 Hz, amplitude 1.5 mm, X,Y,Z, direction, for 2 hours.

4.3 Terminal Strength: The components shall remain within the electrical specifications after pulled 2 kgs weight for 10 seconds towards an axis of each terminal.

4.4 High Temperature Storage: The components shall remain within the electrical specifications after being kept at the 85℃±2℃for 960 hours, then kept at room temperature for 2 hours.

4.5 Low Temperature Storage: The components shall remain within the electrical specifications after being kept at the -25℃±2℃ for 960 hours, then kept at room temperature for 2 hours.

4.6 Temperature Cycle: The components shall remain within the electrical specifications after 5 cycles of high and low temperature testing (one cycle: 80℃ for 30 minutes→25℃ for 5 minutes→-25℃for 30 minutes)than kept at room temperature for 2 hours.

4.7 Humidity Test: The components shall remain within the electrical specifications after being kept at the condition of ambient temperature 40±2℃, and 90 ~ 95% RH for 960±5 hours, then kept at room temperature and normal humidity for 1.5 hours.

4.8 Solder-heat Resistance: The components shall remain within the electrical specifications after dipped in the solder at 350℃±5℃for 5±1 seconds, then kept at room temperature for 10 mins. (Terminal must be dipped leaving 1.5 mm from the case).

4.9 Solderability: Solderability of terminal shall be kept at more than 80% after dipped in the solder flux at 230℃±5℃ for 5±1 seconds.

4.10 Storage: The components shall meet the electrical and mechanical specifications after 5 years storage, if stored within the temperature range of -20℃ ~ +60℃and in the humidity of 20 to 60% r.h.

5. Remarks

5.1 Static voltage

Static voltage between signal load & ground may cause deterioration & destruction of the component. Please avoid static voltage.

5.2 Ultrasonic cleaning

Ultrasonic vibration may cause deterioration & destruction of the component. Please avoid ultrasonic cleaning.

5.3 Soldering

Only leads of component may be soldered. Please avoid soldering another part of component.