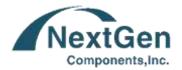
SPECIFICATION SHEET



KHZ DIP CERAMIC FILTER STANDARD CASE 11070 FB SERIES

	1					
SPECIFICATION SHEET NO.	R1010- FB450K0000L007					
ORIGINAL MFG/PART NO	TGS Crystals/CF 450HW BLH/LT450HW					
DATE	Oct. 10, 2024					
REVISION	A4 Updated With Most Recent Data					
DESCRIPTION AND	KHz DIP Ceramic Filter, Standard Type, 5 Pins, FB Series					
	Case 11070, Dimension L11.0*W7.0*H8.0mm					
MAIN PARAMETRICS	450KHz, Insertion Loss. 5.0dB Max.; 6dB Bandwidth: ±3.0KHz Min.					
	Input/Output Impedance: 2000 ohm,					
	Operating Temp. Range -20°C ~+85°C, Packed in Bulk					
	RoHS/RoHS III compliant, RoHS Annex III lead Exemption					
	(exempt per RoHS EU 2015/863)					
CUSTOMER						
CUSTOMER PART NUMBER						
CROSS REF. PART NUMBER						
МЕМО						

VENDOR APPROVE Issued/Checked/Approved Issued/Checked/Approved Issued/Checked/Approved Date: Oct. 10, 2024

Date:

10/10/2024

NextGen Components, Inc.



PART CODE: **FB450K0000L007**

KHZ DIP CERAMIC FILTER STANDARD CASE 11070 FB SERIES

MAIN FEATURE

- KHz DIP Ceramic Filter, Standard Type, 5 pins, Case 11070
- Black Case, Dimension L11.0*W7.0*H8.0mm
- Low Cost And Short Shipment
- Cross Main Competitors Parts CFWL series
- REACH/RoHS/RoHS III compliant, RoHS Annex III lead Exemption

(Exempt per RoHS EU 2015/863)

APPLICATION

Communication Electronics

HOW TO ORDER

Please follow up part code guide and indicate part code when you order or RFQ.



Image shown is a representation only. Exact specifications should be obtained from the

product dimension.







PART CODE GUIDE

CODE	NAME	KEY SPECIFICATION OPTION
FB	Product Series	KHz DIP Ceramic Filter, 5 pins, Case 11070 Dimension L11.0*W7.0*H8.0mm
450K	Frequency Range	450: 450KHz; 455K: 455KHz
0000	Internal Control	Letter or Digits (A~Z, a~z or 1~9)
L	Dip Type Package	Package in bulk
007	Special Parametric	Letter or Digits (A~Z, a~z or 1~9)
- XX	Suffix	Blank: N/A XX: Internal Control Code, Letter A~Z, a~z or digits (0~9) for Special/Custom Parameters

10/10/2024

NextGen Components, Inc.



PART CODE: FB450K0000L007

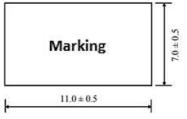
KHZ DIP CERAMIC FILTER STANDARD CASE 11070 FB SERIES

DIMENSION (Unit: mm)

Case 11070, 5 Pins

L11.0*W7.0*H8.0mm

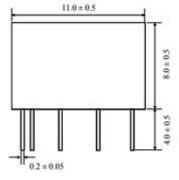
Top View

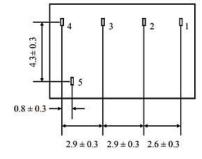


Marking

Line 1: CF or LT Line 2: Frequency Range + Internal Code

Side View





Connection

1: Pin 1: Input 2: Pin 2: Ground 3: Pin 3, Ground 4: Pin 4: Ground

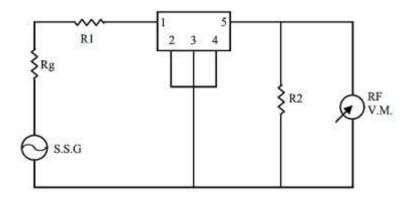
5: Pin 5: Output

Bottom View



MEASUREMENT

- Measurement shall be carried out at the standard temperature of 25±2°C. If no specific requirements, Test can be carried out under 5-35°C.
- Measuring Circuit



Rg+R1=R2=Output/input Impedance

GENERAL ELECTRICAL PARAMETERS

PARAMETER	UNITS	VALUE			CONDITION
		MIN.	TYPICAL	MAX.	
Operating Temperance	°C	-20		+85	
Storage Temperance	°C	-40		+85	
Temperature Stability	%			±0.3	@ -20°C ~+85°C
Insulation Resistance	MΩ	100			@DC 25V 1 minute



PART CODE: FB450K0000L007

KHZ DIP CERAMIC FILTER STANDARD CASE 11070 FB SERIES

MAIN ELECTRICAL PARAMETERS - Ta = 25°C

Part Code	Freq. Range	Bandwidth (6dB) Min	Selectivity (50dB) Max	Stop Band Attenuation Min.	Ripple Max.	Insertion Loss Max.	Input/ Output Impedance
	KHz	KHz	KHz	dB	dB	dB	Ω
FB455K0000L001	455±1.0	±15.0	±30.0	30	2.0	5.0	1500
FB455K0000L002	455±1.0	±12.5	±24.0	45	2.0	5.0	1500
FB455K0000L003	455±1.0	±10.0	±20.0	45	2.0	5.0	1500
FB455K0000L004	455±1.0	±7.5	±15.0	45	2.0	5.0	1500
FB455K0000L005	455±1.0	±6.0	±12.5	45	2.0	5.0	2000
FB455K0000L006	455±1.0	±4.5	±10.0	45	2.0	5.0	2000
FB455K0000L007	455±1.0	±3.0	±9.0	45	2.0	5.0	2000
FB455K0000L008	455±1.0	±3.0	±9.0	50	2.0	5.0	2000
FB455K0000L009	455±1.0	±2.0	±7.5	50	2.0	7.0	2000
FB455K0000L010*	455±1.0	±1.5	±4.5	60	3.0	8.0	2000
FB450K0000L001	450±1.0	±15.0	±30.0	30	2.0	5.0	1500
FB450K0000L002	450±1.0	±12.5	±24.0	45	2.0	5.0	1500
FB450K0000L003	450±1.0	±10.0	±20.0	45	2.0	5.0	1500
FB450K0000L004	450±1.0	±7.5	±15.0	45	2.0	5.0	1500
FB450K0000L005	450±1.0	±6.0	±12.5	45	2.0	5.0	2000
FB450K0000L006	450±1.0	±4.5	±10.0	45	2.0	5.0	2000
FB450K0000L007	450±1.0	±3.0	±9.0	45	2.0	5.0	2000
FB450K0000L008	450±1.0	±3.0	±9.0	50	2.0	5.0	2000
FB450K0000L009	450±1.0	±2.0	±7.5	50	2.0	7.0	2000
FB450K0000L010*	450±1.0	±1.5	±4.5	60	3.0	8.0	2000

Note: *: Spurious @(0.1-1.0MHz): 50dB Min.

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KHZ DIP CERAMIC FILTER STANDARD CASE 11070 FB SERIES

PHYSICAL CHARACTERISTICS

TEST ITEMS	MEASUREMENT CONDITION	REQUIREMENT
Random Drop	Filter shall be measured after 3 times random drops from the height of 30cm on concrete floor	No visible damage and it meet Table at Page 4~5
Vibration	Filter shall be measured after being applied vibration of amplitude of 1.5mm with 10-55Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours	No damage and it meet Table at Page 4~5
Solderability	Lead terminals are immersed in aide solder for 5 sec and then immersed in soldering bath of 230±5°C, for 3±0.5 sec.	At least 95% lead terminals shall be covered with solder.
Substrate Bending Test	Apply pressure in the direction of arrow at a rate of about 0.5mm per second until it reaches a bend of 3mm and hold for 30s.	No damage, no cut-off and it meet Table at Page 4~5
Adhesion	A static load of 20N to the direction of the arrow shall be applied on the core of the component and hold for 10 seconds. Filter shall be soldered correctly and tightly to PCB.	No damage, no cut-off and it meet Table at Page 4~5
Reflow Soldering	Put on the solder paste on the printed wiring board the samples shall be mounted and soldered under the condition, then it shall be subjected to the room atmosphere for 24 hours prior to the measurement.	No damage, no cut-off and it meet Table at Page 4~5

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KHZ DIP CERAMIC FILTER STANDARD CASE 11070 FB SERIES

ENVIRONMENTAL CHARACTERISTICS

TEST ITEMS	MEASUREMENT CONDITION	REQUIREMENT
Humidity	After being placed in a chamber with 90-95% R.H. at 40±2°C for 100 hours and then being placed in room temperature for 1 hour, filter shall be measured.	It shall meet Table at Page 4~5
Resistance to Solder Heat	After being placed in a chamber with 80±2°C,for 100 hours and then being placed in room temperature for 1 hour , filter shall be measured.	It shall meet Table at Page 4~5
High Temperature	After being placed in a chamber with 80±2°C,for 100 hours and then being placed in room temperature for 1 hour , filter shall be measured.	It shall meet Table at Page 4~5
Low Temperature	After being placed in a chamber with -20±2°C,for 100 hours and then being placed in room temperature for 1 hour, filter shall be measured.	It shall meet Table at Page 4~5
Heat Shock	After being kept at room temperature, filter shall be placed at temperature of −55 °C , for 30 minutes, then be placed at temperature. 85°C, for 30 minutes. After that returned to −55°C again. Repeated above cycle for 5 times. After being kept in room temp. for 1 hour, filter shall be measured	It shall meet Table at Page 4~5

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IMPORTANT NOTES AND DISCLAIMER

- ROHS COMPLIANCE: The levels of RoHS restricted materials in this product are below the maximum concentration values (also referred to as the threshold limits) permitted for such substances, or are used in an exempted application, in accordance with EU RoHS Directive (EU) 2015/863 EC (RoHS3). RoHS Test Report for this product can be obtained at Download Center.
- REACH COMPLIANCE: REACH substances of high concern (SVHCs) information is available for this product.
 Since the European Chemical Agency (ECHA) has published notice of their intent to frequently revise the SVHC listing for the foreseeable future, REACH Test Report for this product can be obtained at Download Center.
- All Product parametric performance is indicated in the Electrical Characteristics for the listed herein test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.
- 4. NextGen Component, Inc (*NextGen*) reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.
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- 8. NextGen requires that customers first obtain an RMA (Returned Merchandise Authorization) number prior to returning any products. Returns must be made within 30 days of the date of invoice, be in the original packaging, unused and like-new condition. At the time of quoting or purchasing, a product may say that it is Non-Cancelable/ Non-Returnable (NCNR). These products are not returnable and not refundable.