




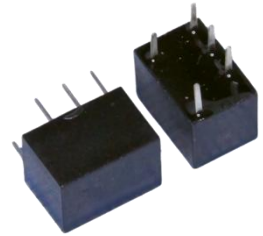
SPECIFICATION SHEET NO.	S0928- LTM450EW00L004	
ORIGINAL MFG/PART NO	TGS Crystals/CFM450EW/LTM450EW	
NEXTGEN PART CODE	LTM450EW00L004	Indicate This Code For RFQ /Order
DATE	Sept. 28, 2025	
REVISION	A1	Updated With Most Recent Data
DESCRIPTION AND MAIN PARAMETRICS	<p>KHz DIP Ceramic Filter, Standard Type, 5 Pins, LTM W Series</p> <p>Case 9565, Dimension L9.5*W6.5*H6.3mm</p> <p>450KHz, Insertion Loss. 5.0dB Max.; 6dB Bandwidth: ± 7.5KHz Min.</p> <p>Input/Output Impedance: 1500 ohm,</p> <p>Operating Temp. Range -20°C ~+80°C, Packed in Bulk</p> <p>RoHS/RoHS III compliant, RoHS Annex III lead Exemption (exempt per RoHS EU 2015/863)</p>	
CUSTOMER		
CUSTOMER PART NUMBER		
CROSS REF. PART NUMBER		
MEMO		

VENDOR APPROVE			
Issued/Checked/Approved			
Date: Sept. 28, 2025			

CUSTOMER APPROVE	
Date:	

MAIN FEATURE

- KHz DIP Ceramic Filter, Standard Type, 5 pins, Case 9565
- Ultra Small Black Case, Dimension L9.5*W6.5*H6.3mm
- Low Cost And Short Shipment
- High Selectivity
- 450KHz is available
- Cross Main Competitors Parts CFULB series
- REACH/RoHS/RoHS III compliant, RoHS Annex III lead Exemption
(Exempt per RoHS EU 2015/863)



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

APPLICATION

- Communication Electronics



ELECTRICAL CHARACTERISTICS

- See Page 5 ~Page 9 For Different Part Code
- All Parametric are Subject To NextGen Components' Final Confirmation

HOW TO ORDER

- Please follow up part code guide and indicate Part Code LTM450EW00L004 when you order or RFQ.

PART CODE GUIDE

RFQ
[Request For Quotation](#)

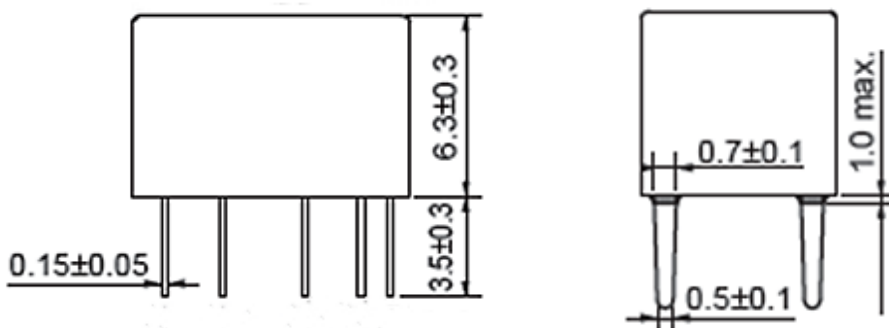
CODE	NAME	KEY SPECIFICATION OPTION
LTM	Product Index	KHz DIP Standard Ceramic Filter, Extra Small Case 9565, Dimension L9.5*W6.5*H6.3mm
450	Frequency Range	450: 450KHz; 455: 455KHz
E	Parametric Code	Letter or Digits (A~Z, a~z or 0~9)
W	Pin Code	U: 4 pins; W: 5 pins
00L004	Internal Control	Letter or Digits (A~Z, a~z or 0~9)
- XX	Suffix	Blank: N/A XX: Internal Control Code, Letter A~Z, a~z or digits (0~9) for Special/Custom Parameters

DIMENSION (Unit: mm) – Case 9565, 4 Pins, L9.5*W6.5*H6.3mm

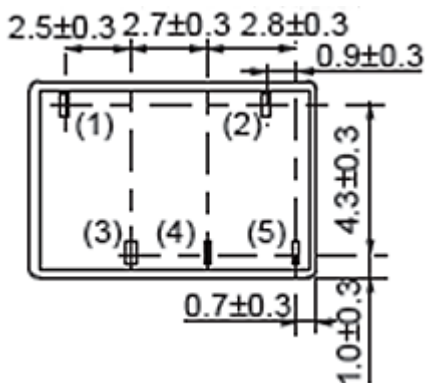
Top View



Side View



Bottom View

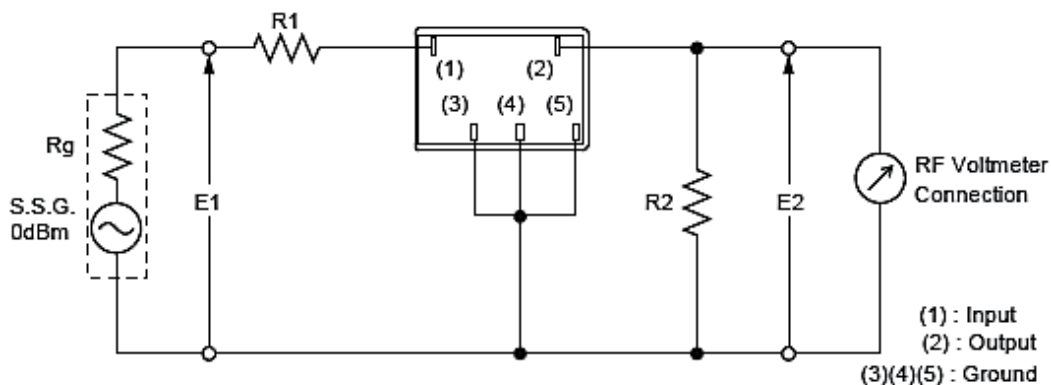


Connection

- ① Input
- ② Output
- ③ ④ ⑤ Ground

MEASUREMENT

- Measurement shall be carried out at the standard temperature of $25 \pm 2^\circ\text{C}$. If no specific requirements, Test can be carried out under $5-35^\circ\text{C}$.
- Measuring Circuit



$$R_g + R_1 = R_2 = \text{Input/Output Impedance}$$

GENERAL ELECTRICAL PARAMETERS

PARAMETER	UNITS	VALUE			CONDITION
		MIN.	TYPICAL	MAX.	
Operating Temperature	$^\circ\text{C}$	-20		+80	
Storage Temperature	$^\circ\text{C}$	-40		+85	
Temperature Stability	%			± 0.5	@ $-20^\circ\text{C} \sim +80^\circ\text{C}$
Insulation Resistance	M Ω	100			@ DC 25V 1 minute

455KHZ MAIN ELECTRICAL PARAMETRICS PART I - Ta = 25°C

Part Code	Center Frequency (f0)	Bandwidth (3dB) Min.	Bandwidth (6dB) Min.	Bandwidth (50dB) Max	Stop Band Attenuation Min.
	@ 6dB Bandwidth				@ f0 ±100KHz
	KHz	KHz	KHz	KHz	dB
LTM455BW00L001	455 ±2.0	±12.5	±15.0	±30.0	35
LTM455CW00L002	455 ±2.0	±10.0	±12.5	±24.0	35
LTM455DW00L003	455 ±2.0	±7.5	±10.0	±20.0	35
LTM455EW00L004	455 ±1.0	±5.5	±7.5	±15.0	45
LTM455FW00L005	455 ±1.0	±4.5	±6.0	±12.5	45
LTM455GW00L006	455 ±1.0	±3.0	±4.5	±10.0	45
LTM455HW00L007	455 ±1.0	-	±3.0	±9.0	45
LTM455HTW0L017	455 ±1.0	-	±3.0	±9.0	55

455KHZ MAIN ELECTRICAL PARAMETRICS PART II - Ta = 25°C

Part Code	Center Frequency (f0)	Ripple Max.	Insertion Loss Max.	Input/Output Impedance
	@ 6dB Bandwidth		@ loss Point	
	KHz	dB	dB	Ω
LTM455BW00L001	455 ±2.0	2 @ f0 ±12.5KHz	4	1500
LTM455CW00L002	455 ±2.0	2 @ f0 ±10.0KHz	4	1500
LTM455DW00L003	455 ±2.0	2 @ f0 ±10.0KHz	4	1500
LTM455EW00L004	455 ±1.0	2 @ f0 ±5.5KHz	5	1500
LTM455FW00L005	455 ±1.0	2 @ f0 ±4.5KHz	5	1500
LTM455GW00L006	455 ±1.0	2 @ f0 ±3.0KHz	5	1500
LTM455HW00L007	455 ±1.0	2 @ f0 ±2.0KHz	5	2000
LTM455HTW0L017	455 ±1.0	2 @ f0 ±2.0KHz	5	2000

450KHZ MAIN ELECTRICAL PARAMETRICS PART I - Ta = 25°C

Part Code	Center Frequency (f0)	Bandwidth (3dB) Min.	Bandwidth (6dB) Min.	Bandwidth (50dB) Max	Stop Band Attenuation Min.
	@ 6dB Bandwidth				@ f0 ±100KHz
	KHz	KHz	KHz	KHz	dB
LTM450BW00L001	450 ±2.0	±12.0	±15.0	±30.0	35
LTM450CW00L002	450 ±1.0	-	±12.5	±24.0	45
LTM450DW00L003	450 ±1.0	±7.5	±10.0	±20.0	35
LTM450EW00L004	450 ±1.0	±5.0	±7.5	±15.0	45
LTM450FW00L005	450 ±1.0	±4.5	±6.0	±12.5	45
LTM450GW00L006	450 ±1.0	±3.0	±4.5	±10.0	45
LTM450HW00L007	450 ±1.0	±2.0	±3.0	±9.0	45
LTM450HTW0L017	450 ±1.0	±2.0	±3.0	±9.0	55

450KHZ MAIN ELECTRICAL PARAMETRICS PART II - Ta = 25°C

Part Code	Center Frequency (f0)	Ripple Max.	Insertion Loss Max.	Input/Output Impedance
	@ 6dB Bandwidth		@ loss Point	
	KHz	dB	dB	Ω
LTM450BW00L001	450 ±2.0	2 @ f0 ±12.0KHz	4	1500
LTM450CW00L002	450 ±1.0	2 @ f0 ±8.0KHz	4	1500
LTM450DW00L003	450 ±1.0	2 @ f0 ±7.5KHz	4	1500
LTM450EW00L004	450 ±1.0	2 @ f0 ±4.5KHz	5	1500
LTM450FW00L005	450 ±1.0	2 @ f0 ±4.5KHz	5	2000
LTM450GW00L006	450 ±1.0	2 @ f0 ±3.0KHz	5	2000
LTM450HW00L007	450 ±1.0	2 @ f0 ±2.0KHz	5	2000
LTM450HTW0L017	450 ±1.0	2 @ f0 ±2.0KHz	5	2000

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 5~9
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 5~9
Solderability	Lead terminals are immersed in aide solder for 5 sec and then immersed in soldering bath of $230\pm 5^{\circ}\text{C}$, 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 5~9
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 5~9
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 5~9

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 5~9
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 5~9
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 5~9
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 5~9
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 5~9

IMPORTANT NOTES AND DISCLAIMER

1. **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.
2. **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.
3. 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.
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