

SPECIFICATION SHEET

DIP CERAMIC FILTER STANDARD CASE 6565 LTM U SERIES

SPECIFICATION SHEET NO.	S0916- LTM450HTU0L017			
ORIGINAL MFG/PART NO	TGS Crystals/CFM450HTU	J/LTM450HTU		
NEXTGEN PART CODE	LTM450HTU0L017	Indicate This Code For RFQ_/Order		
DATE	Sept. 16, 2025			
REVISION	A5	Updated With Most Recent Data		
DESCRIPTION AND	KHz DIP Ceramic Filter, St	tandard Type, 4 Pins, LTM U Series		
MAIN PARAMETRICS	Case 6565, Dimension L6.5*W6.5*H6.3mm 450KHz, Insertion Loss. 6.0dB Max.; 6dB Bandwidth: ±3.0KHz Min. Input/Output Impedance: 2000 ohm, Operating Temp. Range -20°C ~+80°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				
MEMO				

VENDOR APPROVE

Issued/Checked/Approved







Date: Sept. 16, 2025

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Date:



DIP CERAMIC FILTER STANDARD CASE 6565 LTM U SERIES

MAIN FEATURE

- KHz DIP Ceramic Filter, Standard Type, 4 pins, Case 6565
- Ultra Small Black Case, Dimension L6.5*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)

4

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



DIP CERAMIC FILTER STANDARD CASE 6565 LTM U SERIES

HOW TO ORDER

• Please follow up part code guide and indicate Part Code LTM450HTU0L017 when you order or RFQ.

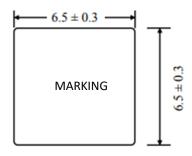
PART CODE GUIDE



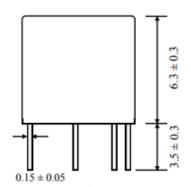
CODE	NAME	KEY SPECIFICATION OPTION
LTM	Product Index	KHz DIP Standard Ceramic Filter, Extra Small Case 6565, Dimension L6.5*W6.5*H6.3mm
450	Frequency Range	450: 450KHz; 455: 455KHz
нт	Parametric Code	Letter or Digits (A~Z, a~z or 0~9)
U	Pin Code	U: 4 pins; W: 5 pins
0L017	Internal Control	Letter or Digits (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

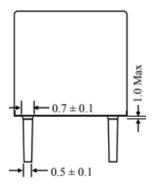
DIMENSION (Unit: mm) – Case 6565, 4 Pins, L6.5*W6.5*H6.3mm

Top View

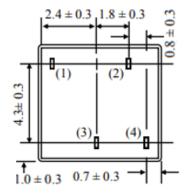


Side View





Bottom View



Connection

- 1 Input
- 2 Output
- 34 Ground

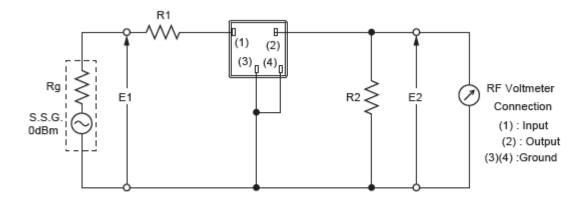
9/16/2025 4



DIP CERAMIC FILTER STANDARD CASE 6565 LTM U SERIES

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=Input/Output Impedance

GENERAL ELECTRICAL PARAMETERS

PARAMETER	UNITS	VALUE			CONDITION
		MIN.	TYPICAL	MAX.	
Operating Temperance	°C	-20		+80	
Storage Temperance	°C	-40		+85	
Temperature Stability	%			±0.5	@ -20°C ~+80°C
Insulation Resistance	МΩ	100			@DC 25V 1 minute

9/16/2025 5



DIP CERAMIC FILTER STANDARD CASE 6565 LTM U SERIES

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

Part Code	Center Frequency (f0) @ 6dB Bandwidth	Bandwidth (3dB) Min.	Bandwidth (6dB) Min.	Bandwidth (40dB) Min	Stop Band Attenuation Min. @ f0 ±100KHz
	KHz	KHz	KHz	KHz	dB
LTM455BU00L001	455 ±2.0	±12.5	±15.0	±30.0	27
LTM455CU00L002	455 ±2.0	±10.0	±12.5	±24.0	27
LTM455DU00L003	455 ±1.5	±7.0	±10.0	±20.0	27
LTM455EU00L004	455 ±1.5	±6.0	±7.5	±15.0	27
LTM455FU00L005	455 ±1.0	±4.5	±6.0	±12.5	27
LTM455GU00L006	455 ±1.0	±3.0	±4.5	±10.0	27
LTM455HU00L007	455 ±1.0	±2.0	±3.0	±9.0	27
LTM455IU00L008	455 ±1.0	±1.5	±2.0	±7.5	27
LTM455HTU0L017	455 ±1.0	±2.0	±3.0	±9.0	35
LTM455ITU0L018	455 ±1.0	±1.5	±2.0	±7.5	35



DIP CERAMIC FILTER STANDARD CASE 6565 LTM U SERIES

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
LTM455BU00L001	455 ±2.0	2 @ f0 ±12.5KHz	4	1500
LTM455CU00L002	455 ±2.0	2 @ f0 ±12.5KHz	4	1500
LTM455DU00L003	455 ±1.5	2 @ f0 ±7.0KHz	4	1500
LTM455EU00L004	455 ±1.5	2 @ f0 ±5.0KHz	4	1500
LTM455FU00L005	455 ±1.0	2 @ f0 ±5.0KHz	4	2000
LTM455GU00L006	455 ±1.0	2 @ f0 ±5.0KHz	4	2000
LTM455HU00L007	455 ±1.0	2 @ f0 ±2.3KHz	6	2000
LTM455IU00L008	455 ±1.0	2 @ f0 ±1.5KHz	6	2000
LTM455HTU0L017	455 ±1.0	2 @ f0 ±2.3KHz	6	2000
LTM455ITU0L018	455 ±1.0	2 @ f0 ±1.5KHz	6	2000



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

Part Code	Center Frequency (f0) @ 6dB Bandwidth	Bandwidth (3dB) Min.	Bandwidth (6dB) Min.	Bandwidth (40dB) Min	Stop Band Attenuation Min. @ f0 ±100KHz
	KHz	KHz	KHz	KHz	dB
LTM450BU00L001	450 ±2.0	±12.5	±15.0	±30.0	27
LTM450CU00L002	450 ±2.0	±10.0	±12.5	±24.0	27
LTM450DU00L003	450 ±1.5	±7.0	±10.0	±20.0	27
LTM450EU00L004	450 ±1.5	±6.0	±7.5	±15.0	27
LTM450FU00L005	450 ±1.0	±4.5	±6.0	±12.5	27
LTM450GU00L006	450 ±1.0	±3.0	±4.5	±10.0	27
LTM450HU00L007	450 ±1.0	±2.0	±3.0	±9.0	35
LTM450IU00L008	450 ±1.0	±1.5	±2.0	±7.5	27
LTM450HTU0L017	450 ±1.0	±2.0	±3.0	±9.0	35
LTM450ITU0L018	450 ±1.0	±1.5	±2.0	±7.5	35



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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
LTM450BU00L001	450 ±2.0	2 @ f0 ±12.5KHz	4	1500
LTM450CU00L002	450 ±2.0	2 @ f0 ±12.5KHz	4	1500
LTM450DU00L003	450 ±1.5	2 @ f0 ±7.0KHz	4	1500
LTM450EU00L004	450 ±1.5	2 @ f0 ±5.0KHz	4	1500
LTM450FU00L005	450 ±1.0	2 @ f0 ±5.0KHz	4	2000
LTM450GU00L006	450 ±1.0	2 @ f0 ±5.0KHz	4	2000
LTM450HU00L007	450 ±1.0	2 @ f0 ±2.3KHz	6	2000
LTM450IU00L008	450 ±1.0	2 @ f0 ±1.5KHz	6	2000
LTM450HTU0L017	450 ±1.0	2 @ f0 ±2.3KHz	6	2000
LTM450ITU0L018	450 ±1.0	2 @ f0 ±1.5KHz	6	2000



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PHYSICAL CHARACTERISTICS

TEST ITEMS	MEASUREMENT CONDITION	REQUIREMENT
Random Drop	Filter shall be measured after 3 times random drops from	No visible damage and it
	the height of 30cm on concrete floor	meet Table at Page 5~9
Vibration	Filter shall be measured after being applied vibration of	No damage and it meet
	amplitude of 1.5mm with 10-55Hz band of vibration	Table at Page 5~9
	frequency to each of 3 perpendicular directions for 2	
	hours	
Solderability	Lead terminals are immersed in aide solder for 5 sec and	At least 95% lead terminals
	then immersed in soldering bath of 230±5°C, for 3±0.5 sec.	shall be covered with solder.
Substrate Bending	Apply pressure in the direction of arrow at a rate of about	No damage, no cut-off and it
Test	0.5mm per second until it reaches a bend of 3mm and	meet Table at Page 5~9
	hold for 30s.	
Adhesion	A static load of 20N to the direction of the arrow shall be	No damage, no cut-off and it
	applied on the core of the component and hold for 10	meet Table at Page 5~9
	seconds. Filter shall be soldered correctly and tightly to	
	PCB.	
Reflow Soldering	Put on the solder paste on the printed wiring board the	No damage, no cut-off and it
	samples shall be mounted and soldered under the	meet Table at Page 5~9
	condition, then it shall be subjected to the room	
	atmosphere for 24 hours prior to the measurement.	



DIP CERAMIC FILTER STANDARD CASE 6565 LTM U 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 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

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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 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 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.
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