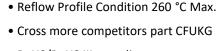


SPECIFICATION SHEET

SPECIFICATION SHEET NO.	N0530-FL455K0000S003
DATE	May 30, 2021
REVISION	A0
DESCRIPITION	KHz SMD Ceramic Filter 6560 Type L6.5*W6.0*H4.2mm 3 Pads CFTC U Series 455.0KHz, Insertion Loss. 5.0dB Max.; 6dB Bandwidth: +/-10.0KHz Min. Operating Temp. Range -20°C ~+80°C Reflow Profile Condition 260 °C Max. Tape/Reel, RoHS/RoHS III compliant
CUSTOMER	
CUSTOMER PART NUMBER	
CROSS REF. PART NUMBER	
ORIGINAL PART NUMBER	TGS CFTC 455DU TLF
PART CODE	FL455K0000S003

VENDOR APPROVE			
lssued/Checked/Approved	Component Mandy To A 3-04	Ruby Compose Compose Control C	Jack Jack Zhang
DATE: May 30, 2021			

STOMER APPROVE	
TE:	



MAIN FEATURE

RoHS/RoHS III compliant

NextGen

Components,Inc.

• White case, L6.5*W6.0*H4.2mm

• Low cost and short shipment

APPLICATION

• Bluetooth, wireless communication set

• KHz SMD Ceramic Filter 6560 Type 3 pads

Communication Electronics

PART CODE GUIDE

NextGen	Componer	nts. Inc.

PART CODE: FL455K0000S003

KHZ SMD CERAMIC FILTER CFTC U SERIES





FL	455K0000	S	003
1	2	3	4

1) FL: Part family Code for KHz SMD Ceramic Filter 6560 Type L6.5*W6.0*H4.2mm 3 Pads CFTC U Series

2) 455K0000: Frequency range code for 455.0000KHz

3) S: SMD type, Package Tape/Reel, 1000pcs/Reel

4) 003: Specification code for original part No.: TGS CFTC 455DU TLF

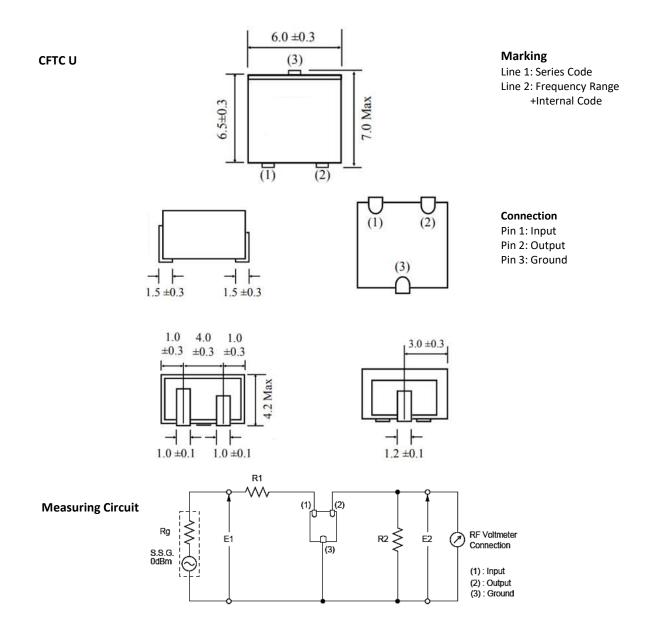


KHZ SMD CERAMIC FILTER CFTC U SERIES

DIMENSION (Unit: mm, Tol. +/-0.15mm)

Image for reference





Rg+R1=R2=Output/input Impedance



KHZ SMD CERAMIC FILTER CFTC U SERIES

ELECTRICAL PARAMETERS

Parameter		Part No. Symbol	Units		Value		Condition
				Min.	Typical	Max.	-
Original	Manufacturer	TGS		TGS Cry	/stals		
Holder T	Гуре	CFTC		KHz SMD Cer	amic Filter		
Frequen	icy Range (f0)	455	KHz		455.00		@fo±1.0KHz, 6dB
Tempera	ature Stability		%			±0.5	@ - 20°C ~ +80°C
Operatio Tempera			°C	-20		+80	
Storage	Temperance		°C	-40		+85	
Stop Bai Attenua			dB	27			@fo±100KHz
		D	KHz	±7.0			@3 dB
Bandwidth			KHz	±10.0			@6 dB
			KHz	±20.0			@50 dB
	n Loss (At m loss point)		dB			5.0	
Ripple			dB			2.0	@f0±8.0khz
Input/O Impedar			Ω	1500			
Insulatio	on Resistance		MΩ	100			@DC 25V 1 minute)
Pads Co	de	U	L6.5*W6.0*H4.2mm 3 Pads				
	Package	Т	Tape/Reel, 1000pcs/Reel				
	RoHS Status	LF	RoHS III compliant N/A				
Other	Add Value						
	Special Code		F	For Internal Control, Blank: N/A			

Note:

Original Part Number: TGS CFTC 455DU TLF



KHZ SMD CERAMIC FILTER CFTC U SERIES

RELIABILITY

Test Items	Test Method And Conditions	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 1.
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 1.
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 1.
Heat Shock	ShockAfter 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	
Resistance to Solder Heat		
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.	
Drop Test	stFilter shall be measured after 3 times random drops from the height of 30 cm on concrete floor	
Adhesion	A static load of 20N to the direction of the arrow (see Fig. 4) shall be applied on the core of the Component and hold for 10 seconds. Filter shall be soldered correctly and tightly to PCB.	
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 visible damage and it meet Table 1
Substrate Bending Test	Apply pressure in the direction of arrow (see Fig. 3) at a rate of about 0.5mm per second until it reaches a bend of 3mm and hold for 30 seconds.	It shall meet Table 1.

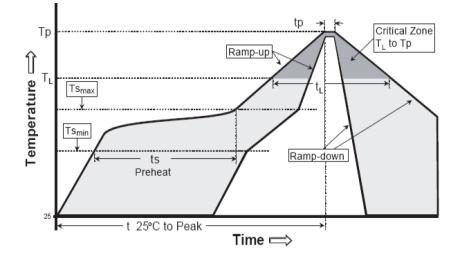
Table1

Item	Center Frequency	Band width (6dB)	Band width (50dB)	Stop Band Attenuation (fo±100KHz)	Ripple (fo±8KHz)	Insertion Loss
Specification	455±1.0 KHz Max.	±10.0 KHz Min.	±20.0 KHz Min.	27.0 dB Min.	2.0 dB Max	5.0 dB Max



KHZ SMD CERAMIC FILTER CFTC U SERIES

SUGGESTED REFLOW PROFILE (For Reference Only)

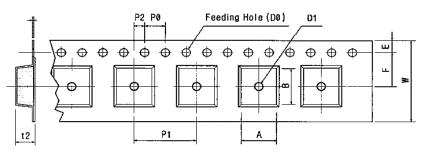


Profile Feature		Pb-Free Assembly
Average Ramp-up R	ate (Ts Max to Tp)	3°C/second Max
Preheat	Temperature Min (Ts Min.)	125°C
	Temperature Max (Ts Max.)	200°C
	Time (ts Min. to ts Max.)	60 ~ 180 seconds
Time maintained above	Temperature (TL)	217°C
	Time (tL)	60 ~ 150 seconds
Peak/Classification	Temperature (Tp)	260 °C
Time within 5°C of a	actual Peak Temperature (tp)	20 ~ 40 seconds
Ramp-down rate		6 °C /Second Max.
Time 25 °C to Peak Temperature		8 minutes Max.
Suggest reflow times		3 Times Max.



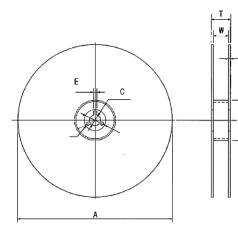
KHZ SMD CERAMIC FILTER CFTC U SERIES

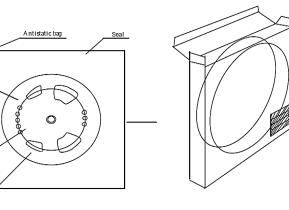
REEL DIMENSION (Unit: mm, 1000pcs/Reel)



Tape Running Direction

TAPE DIMENSION (Unit: mm)





Code	Dimension
W	16.0+/-0.30
F	7.50+/-0.05
E	1.75+/-0.10
P 0	4.00+/-0.10
P 1	8.00+/-0.10
P 2	2.00+/-0.05
D 0	Ø1.5+/-0.10
D 1	Ø1.0+/-0.25
t 2	4.20+/-0.10
А	6.70+/-0.10
В	6.30+/-0.10

Code	Dimension
А	Ø180+/-1.0
В	Ø60+/-0.5
С	Ø13.0+/-0.5
E	2.00+/-0.5
W	17.0+/-1.0
Т	19.4+/-0.3

DISCLAIMER

Ree

Lable

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