

SPECIFICATION SHEET

SPECIFICATION SHEET NO.	R0806-DC455K0000S132			
DATE	Aug. 06, 2	2024		
REVISION	A2 Updated With Most Recent Data			
DESCRIPTION AND MAIN PARAMETRICS	KHz SMD Discriminators 6260 Type L6.2*W6.0*H3.1mm 2 Pads DC Series 455KHz, Demodulated Bandwidth(3dB): ±4.0KHz Min from 455KHz;			
WAIN PARAIVILIRICS	Demodulated Output at 455KHz: 40±20mV Operating Temp. Range -20°C ~+85°C Reflow Profile Condition 260 °C Max. Tape/Reel,			
	RoHS/RoHS III compliant, RoHS Annex III lead Exemption (exempt per RoHS EU 2015/863)			
CUSTOMER				
CUSTOMER PART NO.				
CROSS REF. PART NO.				
ORIGINAL MFG/PART NO.	TGS/CDBC 455C32 TLH/CDBC455C32			
PART CODE	DC455K00	000S132		

VENDOR APPROVE

Issued/Checked/Approved







DATE: Aug. 06, 2024

CUSTOMER APPROVE					

8/6/2024

DATE:



KHZ SMD CERAMIC DISCRIMINATOR DC SERIES CASE 6260

MAIN FEATURE

- KHz SMD Ceramic Discriminator 6260 Type 2 pads
- White case, L6.2*W6.0*H3.1mm
- Low Cost And Short Shipment
- · Reflow Profile Condition 260 °C Max.
- Cross Main Competitors Parts CDBC and JTC series
- For Quadrature Detection With IC:TOSHIBA/ TA31143
- 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.

PART CODE GUIDE



CODE	NAME	KEY SPECIFICATION OPTION
DC	Product Series Code	Part family Code for KHz SMD Ceramic Discriminator 6260 Type L6.2*W6.0*H3.1mm 2 Pads
455K	Frequency Range Code	450: 450KHz; 455K: 455KHz
0000	Internal Control Code	Letter or Digits (A~Z, a~z or 1~9)
S	SMD type Package Code	Tape/Reel
132	Specification Code	Letter or Digits (A~Z, a~z or 1~9) for Special Parametric





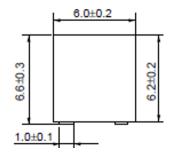
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DIMENSION (Unit: mm)

Image for reference



Case 6260 Type 2 Pads L6.2*W6.0*H3.1mm



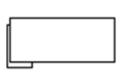
Marking

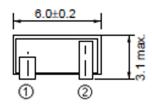
Line 1: CDBc

Line 2: 455C32

See Page 5/6 for different Part

Code

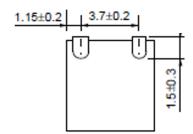




Connection

1: Pin 1: Input/Output

2: Pin 2: Output/Input





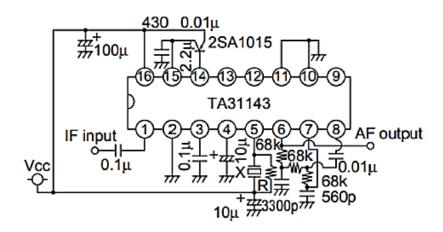
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MATERIAL LIST

No.	Item	Material
1	Case	Polybutene Terephthalate (Mixture Of Glass Fiber)
2	Terminal	Phosphor Bronze Ag Clad
3	Base Seal	Epoxy Resin

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: For Quadrature Detection With IC TOSHIBA/ TA31143



GENERAL ELECTRICAL CHARACTERISTICS

PARAMETER	UNITS	VALUE			CONDITION
		MIN.	TYPICAL	MAX.	
Operation Temperance	°C	-20		+85	
Storage Temperance	°C	-40		+85	
Temperature Stability	%			±0.5	@ -20°C ~+85°C
Withstand Voltage	V	DC 50V For 1 minute			



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ELECTRICAL PARAMETERS – FOR DIFFERENT PART CODE- Ta = 25°C

Part Code	Modulation Frequency	3dB Demodulated Bandwidth from 450 kHz	Demodulated Output at 450 kHz	Demodulated Distortion Factor	IC Model No. For Reference Only	Marking Line 2
	KHz	KHz	mV	%		
DC450K0000S024	450±1.0	±4.0KMin	100±40	2.0	TA31136F	450C24
DC450K0000S028	450±1.0	±4.0KMin	40±20	3.0	TA31142F	450C28
DC450K0000S036	450±1.0	±13.0Min	90±30	2.5	NE(SA) 606/616	450C36
DC450K0000S049	450±1.0	±4.0 Min	45±10	3.0	MC3661	450C49
DC450K0000S079	450±1.0	±4.0 Min	145±40	/	TB32302FG	450C79

ELECTRICAL PARAMETERS – FOR DIFFERENT PART CODE- Ta = 25°C

Part Code	Anti-	Resonant	ΔF(Fa-Fr) Fr:	Capacitance	IC Model	Marking
	Resonate	Impedance	Resonant	(at 1 kHz)	No. For	Line 2
	Frequency		Frequency		Reference	
	KHz	Ohm	mV	pF	Only	
DC455K0000S103	455±1.0	70 Max.	46±5.0	550 ±20%	CXA1184M	455C3
DC455K0000S133	462±1.5	200 Max.	40±4.0	150 ±20%	CXA1474	455C33



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ELECTRICAL PARAMETERS – FOR DIFFERENT PART CODE- Ta = 25°C

Part Code	Modulation Frequency	3dB Demodulated Bandwidth from 455 kHz	Demodulated Output at 455 kHz	Demodulated Distortion Factor	IC Model No. For Reference Only	Marking Line 2
	KHz	KHz	mV	%		
DC455K0000S107	455±1.0	±4.0 Min	350±60	3.0	MC3357	455C7
DC455K0000S109	455±1.0	±4.0 Min	120±40	1.5	NE604N	455C9
DC455K0000S113	455±1.0	±4.0 Min	330±50	4.0	CXA1003BM	455C13
DC455K0000S116	455±1.0	±4.0 Min	175±40	2.0	MC3372	455C16
DC455K0000S124	455±1.0	±4.0 Min	100±40	2.0	TA31136FN	455C24
DC455K0000S127	455±1.0	±4.0 Min	90±30	2.0	TK10487	455C27
DC455K0000S128	455±1.0	±4.0 Min	48~51	3.0	TA31142F	455C28
DC455K0000S129	455±1.0	±4.0 Min	100±30	2.5	NE605	455C29
DC455K0000S132	455±1.0	±4.0 Min	40±20	3.0	TA31142F	455C32
DC455K0000S135	455±1.0	±4.0 Min	100±40	2.5	TK10930	455C35
DC455K0000S136	455±1.0	±13.0 Min	90±30	2.5	NE(SA) 606/616	455C36
DC455K0000S139	455±1.0	±11.0 Min	130±20	2.5	NE(SA) 607/617	455C39
DC455K0000S140	455±1.0	±4.0 Min	40±20	3.5	TA31145	455C40
DC455K0000S149	455±1.0	±4.0 Min	45±10	3.0	MC3361	455C49
DC455K0000S150	455±1.0	±4.0 Min	64±6.4	4.0	CXA3117	455C50
DC455K0000S154	455±1.0	±4.0 Min	165±20	/	TA31149	455C54
DC455K0000S166	455±1.0	±4.2 Min	40±10	4.0	NJM2590	455C66
DC455K0000S170	455±1.0	±5.0 Min	85±10	4.5	NJM2591V	455C70
DC455K0000S179	455±1.0	±3.0 Min	145±40	/	TB32302FG	455C79



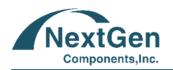
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TEST METHOD AND CONDITIONS

Measurement Condition: Unless otherwise noted, the standard range of atmospheric conditions for measurements and tests are as follows:

Ambient temperature: 5° C to 35° C Relative humidity : 45% to 85%; Air pressure : 86Kpa to 106 Kpa If there is doubt about the results, measurement shall be made within the following limits: Ambient temperature: 18° C to 22° C; Relative humidity : 60% to 70%; Air pressure: 86Kpa to 106 Kpa

TEST ITEMS	TEST METHOD AND CONDITIONS	REQUIREMENT
Demodulated 3dB	Input the above signal and sweep the carrier around	No visible damage and it
Bandwidth	455kHz, and find Out the maximum audio output	meet Table at Page 5/6
	frequency. Then sweep the carrier frequency again and	
	find two frequencies, which are observed –3dB	
	attenuation points from the maximum point. Higher	
	frequency point is called (f1) and lower called (f2).	
	(F1-455KHz) is defined as upper 3dB bandwidth and	
	(455KHz -f2) defined as lower 3dB bandwidth.	
Demodulate	Demodulated output shall be measured when carrier	No damage and it meet
Output	frequency is adjusted to 455KHz.	Table at Page 5/6
Demodulated	Carrier frequency is adjusted to 455KHz And distortion	No damage and it meet
Distortion Factor	shall be measured with 1 kHz modulation frequency.	Table at Page 5/6.
Input Signal	Input signal condition, Input level 80dBμ	
Condition	Frequency Deviation ±4.0KHz	
	Modulation Frequency: 1.0KHz	

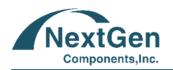


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ENVIRONMENTAL CHARACTERISTICS

TEST ITEMS	MEASUREMENT CONDITION	REQUIREMENT
TEST TIEWIS	WEASOREMENT CONDITION	REQUIREIVIENT
Humidity	After being placed in a chamber with 90-95% R.H. at	It shall meet Table at Page
	40±2°C for 100 hours and then being placed in room	5/6
	temperature for 1 hour, filter shall be measured.	
High	After being placed in a chamber with 80±2°C, for 100 hours	It shall meet Table at Page
Temperature	and then being placed in room temperature for 1 hour ,	5/6
	filter shall be measured.	
Low	After being placed in a chamber with -20±2°C,for 100	It shall meet Table at Page
Temperature	hours and then being placed in room temperature for 1	5/6
	hour, filter shall be measured.	
Heat Shock	After being kept at room temperature, filter shall be	It shall meet Table at Page
	placed at temperature of –55 °C , for 30 minutes, then be	5/6
	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	Lead terminals are immersed up to 1.5mm from filter's	It shall meet Table at Page
Solder Heat	body in soldering bath of 350± 10°C, for 3±0.5 sec. And	5/6
	then filter shall be measured after being placed in room	
	temperature for 1 hour.	

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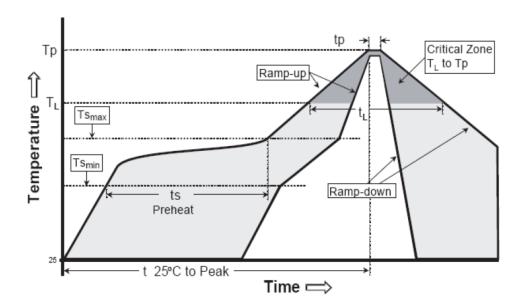
PHYSICAL CHARACTERISTICS

TEST ITEMS	TEST METHOD AND CONDITIONS	REQUIREMENT
Random Drop/	Filter shall be measured after 3 times random drops from	No damage and it meet
Drop Test	the height of 30cm on concrete floor	Table at Page 5/6
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 5/6
	frequency to each of 3 perpendicular directions for 2 hours	
Solderability	Lead terminals are immersed in aide solder for 5 sec and	No damage and it meet
	then immersed in soldering bath of 230±5°C, for 3±0.5 sec.	Table at Page 5/6
	At least 95% lead terminals shall be covered with solder	
Substrate Bending	After lead terminals shall be fixed at 2mm from filter's	No damage and it meet
Test	body, they shall be folded up to 90°from their axial	Table at Page 5/6
	directions and folded back to –90°. Then folded back to	
	their axial direction, the speed of folding be each 3	
	seconds.	
Terminal Strength	After force of 1kg for 10 seconds is applied to each	No damage and it meet
Pulling	terminal in axial direction, Filter shall be measured.	Table at Page 5/6



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SUGGESTED REFLOW PROFILE (For Reference Only)

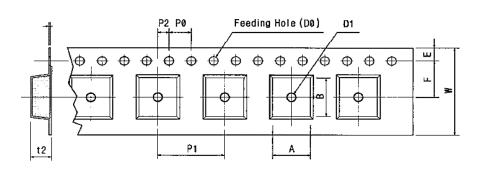


PROFILE FEATURE		PB-FREE ASSEMBLY
Average Ramp-up R	ate (Ts Max to Tp)	3°C/second Max
Preheat	Temperature Min (Ts Min.)	150°C
	Temperature Max (Ts Max.)	180°C
	Time (ts Min. to ts Max.)	60 ~ 180 seconds
Time maintained	Temperature (TL)	230°C
above	Time (tL)	60 ~ 150 seconds
Peak/Classification	Femperature (Tp)	260 °C
Time within 5°C of a	octual Peak Temperature (tp)	20 ~ 40 seconds
Ramp-down rate		6 °C /Second Max.
Time 25 °C to Peak Temperature		8 minutes Max.
Suggest reflow time	s	3 Times Max.

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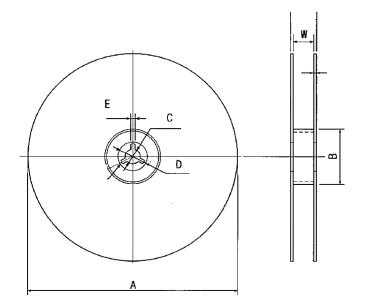
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REEL AND TAPE DIMENSION (Unit: mm, 2000pcs/Reel)



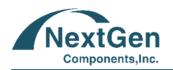
Tape Running Direction

CODE	DIMENSION
W	16.0+/-0.30
F	6.80+/-0.20
E	1.75+/-0.10
P 0	4.00+/-0.10
P 1	7.80+/-0.10
P 2	2.00+/-0.05
D 0	Ø1.5+/-0.10
D 1	Ø1.5+/-0.10
t 2	3.60+/-0.10
А	7.70+/-0.10



CODE	DIMENSION
А	Ø330+/-1.0
В	Ø80+/-0.5
С	Ø13.0+/-0.5
E	2.00+/-0.3
W	16.0+/-1.0

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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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 express written approval by NextGen.
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Non-Cancelable/ Non-Returnable (NCNR). These products are not returnable and not refundable. 8/6/2024