Wire-wound Ferrite Inductors for Class D Amplifier LCXA for Automotive Body & Chassis and Infotainment

Code in front of Series have been extracted from Part number, which describes the segment of products, such as kinds and characteristics.

REFLOW

AEC-Q200 Grade 3 (we conduct the evaluation at the test condition of Grade 3.) *Operating environment Temp:-40 \sim 85 $^{\circ}\text{C}$

■PART NUMBER

*Operating Temp.: -40~125°C (Including self-generated heat)

L	С	Χ	Α	F	6	0	6	0	Υ	Ε	L	3	R	3	М	М	R	
	()		2			3)		(4	4)	(5)		6		7		8	

1)Series

Code	
(1)(2)(3)(4)	
LCXA	Wire-wound Ferrite Inductors for Class D Amplifiers for Automotive Body & Chassis and Infotainment

(1) Product Group

Code	
L	Inductors

(2) Category

②Features Code

·	57	
Code	Recommended equipment	Quality Grade
С	Automotive Electronic Equipment (Body & Chassis, Infotainment)	2

⑤Packaging			

Ferrite Wire-wound (Drum type)

For audio filters

③Dimensions (L×W)

O DITTICTISTOTIS (E.	
Code	Dimensions (L × W) [mm]
6060	60×60

Feature

Bottom electrode (Ag × solder) for fillet

Dimensions (H)

4)Dimensions (n)						
Code	Dimensions (H) [mm]					
YE	4.5					

2 1

(3) Type Code

Code

Code	i achaging
Г	Taping

6 Nominal inductance

(4) Features, Characteristics

Code (example)	Nominal inductance[µH]	
3R3	3.3	

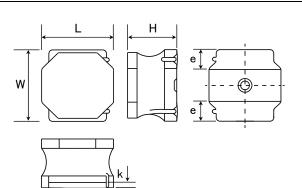
※R=Decimal point

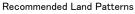
7Inductance tolerance

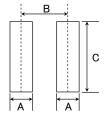
Code	Inductance tolerance
М	±20%

8Internal code

■STANDARD EXTERNAL DIMENSIONS / STANDARD QUANTITY







Type	Α	В	С
6060	2.4	5.0	4.8

Unit:mm

Туре	L	W	Н	е	k(ref)	Standard quantity [pcs] Taping
6060YE	6.0±0.2 (0.236±0.008)	6.0±0.2 (0.236±0.008)	4.5 max (0.177 max)	1.65±0.3 (0.053±0.012)	0.3 min (0.012 min)	1500
						Unit:mm(inch)

[►] This catalog contains the typical specification only due to the limitation of space. When you consider the purchase of our products, please check our specification. For details of each product (characteristics graph, reliability information, precautions for use, and so on), see our Web site (http://www.ty-top.com/).

PART NUMBER

• All the Wire-wound Ferrite Inductors for Class D Amplifier of the catalog lineup are RoHS compliant.

Notes)

- The exchange of individual specifications is necessary depending on your application and/or circuit condition. Please contact TAIYO YUDEN's official sales channel.
- For Automotive (AEC-Q200 Qualified) products for BODY & CHASSIS, and INFOTAINMENT. Please check "Automotive Application Guide" for further details before using the products.
 - < AEC-Q200 :AEC-Q200 qualified>

All the Wire-wound Ferrite Inductors for Class D Amplifier for Automotive products are tested based on the test conditions and methods defined in AEC-Q200 by family item. Please consult with TAIYO YUDEN's official sales channel for the details of the product specifications and AEC-Q200 test results, etc., and please review and approve the product specifications before ordering.

Inductors for Class D Amplifier LCXAF6060YE type

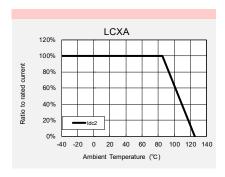
	New part number	Old part number (for reference)	Nominal inductance	Inductance tolerance	DC Resistance [mΩ] Max (Typ)	Rated current ※)[A]		
						Saturation current Idc1 Max (Typ)	Temperature rise current Idc2 Max (Typ)	Measuring frequency[MHz]
	LCXAF6060YEL3R3MMR	NRC6045T 3R3MMRUV	3.3	±20%	32 (26)	9.00 (9.60)	3.80 (4.30)	0.1

- X) The saturation current value (Idc1) is the DC current value having inductance decrease down to 30%. (at 20°C)
- X) The temperature rise current value (Idc2)2 is the DC current value having temperature increase up to 40°C. (at 20°C)
- XX) The rated current is the DC current value that satisfies both of current value saturation current value and temperature rise current value.

Derating of Rated Current

LCXA

Derating of current is necessary for LCXA depending on ambient temperature. Please refer to the chart shown below for appropriate derating of current.



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