



SPECIFICATION FOR APPROVAL

CUSTOMER: _____
CUSTOMER P/N: _____
ATC P/N: DLDU0608-SERIES
QUANTITY: 0 PCS
DATE: 2021.02.09

Please confirm your acceptance of this approval sheet by return fax.

APPROVED

REJECTED



DRAWN BY	CHECKED BY	APPROVED BY
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SPECIFICATION

ATC's DWG
NUMBER

DLDU0608-SERIES

PROD.
NAME

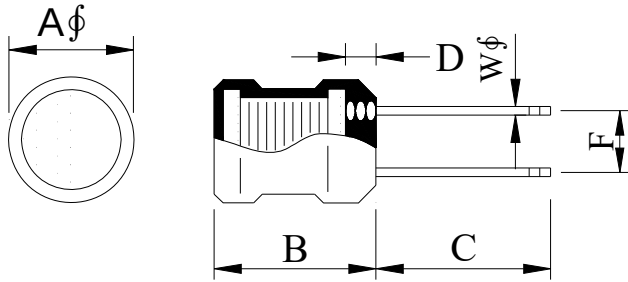
RADIAL LEADED FIXED INDUCTOR

REV.

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1 Configuration and Dimensions :



Item	Spec. (mm)
A	7.50 max.
B	11.0 max.
C	15.0 typ.
D	3.00 typ.
F	2.50 ± 0.50
W	0.65 ± 0.05

2 Schematic Diagram :



3 Rating :

Operating Temperature: -25°C ~ +85°C

Storage Temperature: Under 40°C, Humidity < 75%

4 Material List :

- a. Core: Ferrite DR core
- b. Wire: Enamelled copper wire (class F)
- c. Lead: Sn / Ag / Cu
- d. Tube: Shrinkable tube



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5 Electrical Characteristics :

DWG No.	L (uH)	Q min.	Freq.(Hz)		RDC (Ω)max.	IDC (mA)max.	Tol.
			L	Q			
DLDU0608-3R3□Z	3.300	20	1K	7.96M	0.016	3500	K
DLDU0608-4R7□Z	4.700	20	1K	7.96M	0.020	3000	K
DLDU0608-6R8□Z	6.800	20	1K	7.96M	0.022	2500	K
DLDU0608-100□Z	10.00	30	1K	2.52M	0.039	2000	K
DLDU0608-150□Z	15.00	30	1K	2.52M	0.045	1700	K
DLDU0608-220□Z	22.00	30	1K	2.52M	0.062	1400	K
DLDU0608-330□Z	33.00	30	1K	2.52M	0.100	1100	K
DLDU0608-470□Z	47.00	30	1K	2.52M	0.150	950.0	K
DLDU0608-680□Z	68.00	30	1K	2.52M	0.220	800.0	K
DLDU0608-101□Z	100.0	20	1K	796K	0.350	650.0	K
DLDU0608-151□Z	150.0	20	1K	796K	0.430	540.0	K
DLDU0608-221□Z	220.0	20	1K	796K	0.900	440.0	K
DLDU0608-331□Z	330.0	20	1K	796K	1.500	360.0	K
DLDU0608-471□Z	470.0	20	1K	796K	1.800	300.0	K
DLDU0608-681□Z	680.0	20	1K	796K	2.500	250.0	K
DLDU0608-102□Z	1000.0	100	1K	252K	3.200	200.0	K
DLDU0608-122□Z	1200.0	70	1K	252K	3.500	180.0	K
DLDU0608-152□Z	1500.0	70	1K	252K	4.500	170.0	K
DLDU0608-182□Z	1800.0	70	1K	252K	5.000	155.0	K
DLDU0608-222□Z	2200.0	70	1K	252K	6.800	140.0	K
DLDU0608-272□Z	2700.0	70	1K	252K	7.200	125.0	K
DLDU0608-332□Z	3300.0	70	1K	252K	10.50	115.0	K
DLDU0608-392□Z	3900.0	70	1K	252K	11.70	105.0	K
DLDU0608-472□Z	4700.0	70	1K	252K	13.60	95.00	K
DLDU0608-502□Z	5000.0	70	1K	252K	14.60	90.00	K
DLDU0608-562□Z	5600.0	70	1K	252K	16.60	85.00	K
DLDU0608-682□Z	6800.0	70	1K	252K	19.60	80.00	K
DLDU0608-822□Z	8200.0	70	1K	252K	25.20	70.00	K
DLDU0608-103□Z	10000	70	1K	79.6K	29.50	65.00	K
DLDU0608-123□Z	12000	50	1K	79.6K	33.80	60.00	K

Note:

- -Tolerance: K=±10%
- IDC obtained when temp. rise to 20°C or the initial inductance drop by 10% , whichever is smaller.



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5 Electrical Characteristics :

DWG No.	L (uH)	Q min.	Freq.(Hz)		RDC (Ω)max.	IDC (mA)max.	Tol.
			L	Q			
DLDU0608-153□Z	15000	50	1K	79.6K	45.40	55.00	K
DLDU0608-183□Z	18000	50	1K	79.6K	50.40	50.00	K
DLDU0608-223□Z	22000	50	1K	79.6K	80.00	45.00	K
DLDU0608-303□Z	30000	50	1K	79.6K	91.50	40.00	K
DLDU0608-333□Z	33000	50	1K	79.6K	98.50	35.00	K
DLDU0608-393□Z	39000	50	1K	79.6K	140.0	32.00	K
DLDU0608-473□Z	47000	50	1K	79.6K	160.0	30.00	K
DLDU0608-503□Z	50000	50	1K	79.6K	170.0	29.00	K
DLDU0608-563□Z	56000	50	1K	79.6K	250.0	28.00	K
DLDU0608-683□Z	68000	50	1K	79.6K	282.0	25.00	K
DLDU0608-823□Z	82000	50	1K	79.6K	312.0	23.00	K
DLDU0608-104□Z	100000	30	1K	25.2K	380.0	20.00	K
DLDU0608-124□Z	120000	30	1K	25.2K	430.0	18.00	K
DLDU0608-154□Z	150000	30	1K	25.2K	520.0	16.00	K

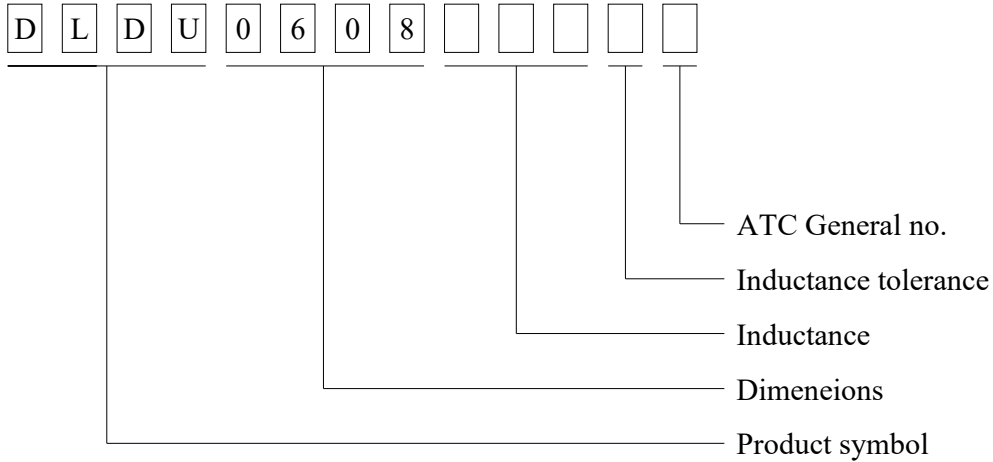
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6 DWG Expression :



7 Reliability test :

1-1.Electrical characteristic tests

No	Item	Specification	Test Method
1	Electronic characteristic test of major products	Refer to catalogue of specific products	Refer to catalogue of specific products
2	Overload test	1.During the test no smoke no peculiar, smell, no fire 2.The characteristic is normal after test	Apply twice as rated current for 5 minutes
3	Voltage resistance test	1.During the test no breakdown 2.The characteristic is normal after test	Refer to product's specification



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7 Reliability Test :

1-2.Physical characteristic tests

No	Item	Specification	Test Method
1	Heat endurance of flow soldering	1.No case deformation or change in appearance 2. $\Delta L/L \leq 10\%$ 3. $\Delta Q/Q \leq 30\%$	1.Dip pads in flux then dip in solder pot at $260 \pm 5^\circ\text{C}$ for 10 seconds 2.Solder: Sn(96)/Ag(4) 3.Flux: rosin flux
2	Vibration test	4. $\Delta RDC/RDC \leq 10\%$	Apply frequency 10~55Hz, 0.75mm amplitude in each of perpendicular direction for 2 hours (total 6 hours)
3	Drop test		Packaged & drop down from 1m with $981\text{m/s}^2(100\text{G})$ attitude in 1 angle 1 ridges & 2 surfaces orientations
4	Terminal strength		A.Pull Force: 0.45kg, the force shall be applied gradually to the terminal and then maintained for 10 seconds C.Wire-lead bend: 0.23kg, the rate of bending shall be approximately 3 seconds per bend in each direction The load shall be suspended at a point within 1/4 inch from the free end of the terminal
5	Solderability test	Terminals area must have 95% min. solder coverage	1.Dip pads in flux then dip in solder pot at $245 \pm 5^\circ\text{C}$ for 5 seconds 2.Solder: Sn(96)/Ag(4) 3.Flux: rosin flux
6	Resistance to solvent test	No case deformation or change in appearance, or obliteration of marking	To dip parts into IPA solvent for $5 \pm 0.5\text{Min.}$ then drying them at room temp for 5Min. at last, to brushing making 10 times

1-3.Environmental tests

No	Item	Specification	Test Method
1	High temperature storage test	1.No case deformation or change in appearance 2. $\Delta L/L \leq 10\%$ 3. $\Delta Q/Q \leq 30\%$	Temperature: $85 \pm 2^\circ\text{C}$ Time: 96 ± 2 hours Tested not less than 1 hour, nor more than 2 hours at room temperature
2	Low temperature storage test	4. $\Delta RDC/RDC \leq 10\%$	Temperature: $-25 \pm 2^\circ\text{C}$ Time: 96 ± 2 hours Tested not less than 1 hour, nor more than 2 hours at room temperature
3	Humidity test		1. Dry oven at a temperature of $40 \pm 5^\circ\text{C}$ for 24 hours 2. Measurements at the end of this period 3. Exposure temperature: $40 \pm 2^\circ\text{C}$ 4. Humidity: $93 \pm 3\%RH$, Time: 96 ± 2 hours 5. Tested while the specimens are still in the chamber 6. Tested not less than 1 hour, nor more than 2 hours at room temperature
4	Thermal shock test		First -40°C for T time, last 125°C T time as 1 cycle, go through 20 cycles