



## SPECIFICATION FOR APPROVAL

CUSTOMER : Schukat electronic Vertriebs  
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
林月霞 <i>Alice</i>	張德名 <i>Richard</i>	葉任銘 <i>J.M.Yeh</i>

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**SPECIFICATION**

ATC's DWG NUMBER

**DLDU0608-SERIES**

PROD. NAME

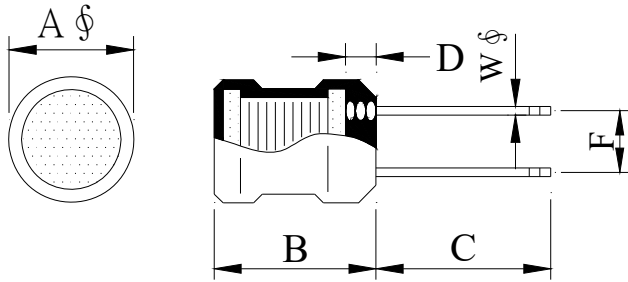
RADIAL LEADED FIXED INDUCTOR

REV.

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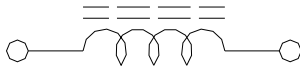
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**1 Configuration and Dimensions :**



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 :

1. □-Tolerance : K=±10%
2. 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

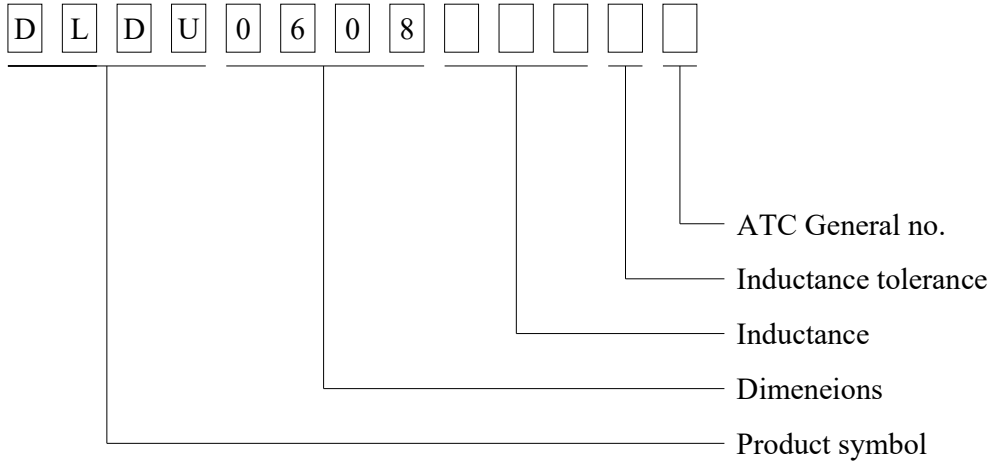
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**6 DWG Expression :**



**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 981m/s <sup>2</sup> (100G) 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 $5 \pm 0.5$ 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 : $96 \pm 2$ 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 : $96 \pm 2$ 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 : $96 \pm 2$ 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 $-40^\circ\text{C}$ for T time, last $125^\circ\text{C}$ T time as 1 cycle, go through 20 cycles