



SPECIFICATION FOR APPROVAL

CUSTOMER : Schukat electronic Vertriebs
CUSTOMER P/N :
ATC P/N : DSKT3225-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

DSKT3225-SERIES

PROD.
NAME

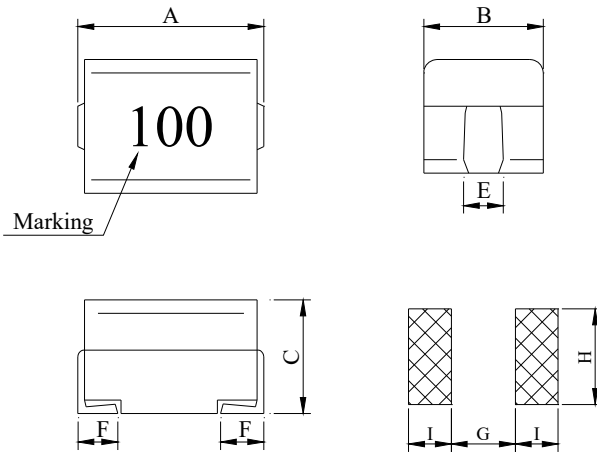
WOUND CHIP INDUCTOR

REV.

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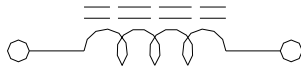
1 Configuration and Dimensions :



Item	Spec. (mm)
A	3.20 ± 0.40
B	2.50 ± 0.20
C	2.20 ± 0.20
E	1.00 ± 0.20
F	0.75 ± 0.15
G	1.80 ref.
H	1.40 ref.
I	1.00 ref.

(PCB Pattern)

2 Schematic Diagram :



3 Rating :

Operating Temperature : -40°C ~ +125°C (Including self-temperature rise)

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

4 Material List :

- a. Core : Ferrite DR core
- b. Wire : Enamelled copper wire (class H)
- c. Terminal : Cu / Ni / Sn
- d. Encapsulate : Epoxy novolac molding compound



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5 Electrical Characteristics :

DWG No.	Inductance (uH)	Q min.	Test Freq. (Hz)	SRF (MHz)typ.	RDC (Ω)max.	IDC (mA)max.	Tol.
DSKT3225-R12□F	0.120	30	25.2M	875.0	0.220	450.0	K,M
DSKT3225-R15□F	0.150	30	25.2M	860.0	0.250	450.0	K,M
DSKT3225-R18□F	0.180	30	25.2M	685.0	0.280	450.0	K,M
DSKT3225-R22□F	0.220	30	25.2M	560.0	0.320	450.0	K,M
DSKT3225-R27□F	0.270	30	25.2M	525.0	0.360	450.0	K,M
DSKT3225-R33□F	0.330	30	25.2M	520.0	0.400	450.0	K,M
DSKT3225-R39□F	0.390	30	25.2M	470.0	0.450	450.0	K,M
DSKT3225-R47□F	0.470	30	25.2M	430.0	0.500	450.0	K,M
DSKT3225-R56□F	0.560	30	25.2M	395.0	0.550	450.0	K,M
DSKT3225-R68□F	0.680	30	25.2M	370.0	0.600	450.0	K,M
DSKT3225-R82□F	0.820	30	25.2M	310.0	0.650	450.0	K,M
DSKT3225-1R0□F	1.000	30	7.96M	295.0	0.700	400.0	J,K,M
DSKT3225-1R2□F	1.200	30	7.96M	255.0	0.750	390.0	J,K,M
DSKT3225-1R5□F	1.500	30	7.96M	160.0	0.850	370.0	J,K,M
DSKT3225-1R8□F	1.800	30	7.96M	125.0	0.900	350.0	J,K,M
DSKT3225-2R2□F	2.200	30	7.96M	100.0	1.000	320.0	J,K,M
DSKT3225-2R7□F	2.700	30	7.96M	65.00	1.100	290.0	J,K,M
DSKT3225-3R3□F	3.300	30	7.96M	55.00	1.200	260.0	J,K,M
DSKT3225-3R9□F	3.900	30	7.96M	50.00	1.300	250.0	J,K,M
DSKT3225-4R7□F	4.700	30	7.96M	45.00	1.500	220.0	J,K,M
DSKT3225-5R6□F	5.600	30	7.96M	40.00	1.600	200.0	J,K,M
DSKT3225-6R8□F	6.800	30	7.96M	35.00	1.800	180.0	J,K,M
DSKT3225-8R2□F	8.200	30	7.96M	30.00	2.000	170.0	J,K,M
DSKT3225-100□F	10.00	30	2.52M	30.00	2.100	150.0	J,K,M
DSKT3225-120□F	12.00	30	2.52M	28.00	2.500	140.0	J,K,M
DSKT3225-150□F	15.00	30	2.52M	25.00	2.800	130.0	J,K,M
DSKT3225-180□F	18.00	30	2.52M	22.00	3.300	120.0	J,K,M
DSKT3225-220□F	22.00	30	2.52M	19.00	3.700	110.0	J,K,M
DSKT3225-270□F	27.00	30	2.52M	18.00	5.000	80.00	J,K,M
DSKT3225-330□F	33.00	30	2.52M	17.00	5.600	70.00	J,K,M

Note :

- Tolerance : J=±5% / K=±10% / M=±20%
- IDC base on $\Delta L / L0A=10\%$



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5 Electrical Characteristics :

DWG No.	Inductance (uH)	Q min.	Test Freq. (Hz)	SRF (MHz)typ.	RDC (Ω)max.	IDC (mA)max.	Tol.
DSKT3225-390□F	39.00	30	2.52M	15.00	6.400	65.00	J,K,M
DSKT3225-470□F	47.00	30	2.52M	14.00	7.000	60.00	J,K,M
DSKT3225-560□F	56.00	30	2.52M	13.00	8.000	55.00	J,K,M
DSKT3225-680□F	68.00	30	2.52M	11.00	9.000	50.00	J,K,M
DSKT3225-820□F	82.00	30	2.52M	10.00	10.00	45.00	J,K,M
DSKT3225-101□F	100.0	20	0.796M	9.000	11.00	40.00	J,K,M
DSKT3225-121□F	120.0	20	0.796M	8.000	11.00	70.00	J,K,M
DSKT3225-151□F	150.0	20	0.796M	7.000	15.00	65.00	J,K,M

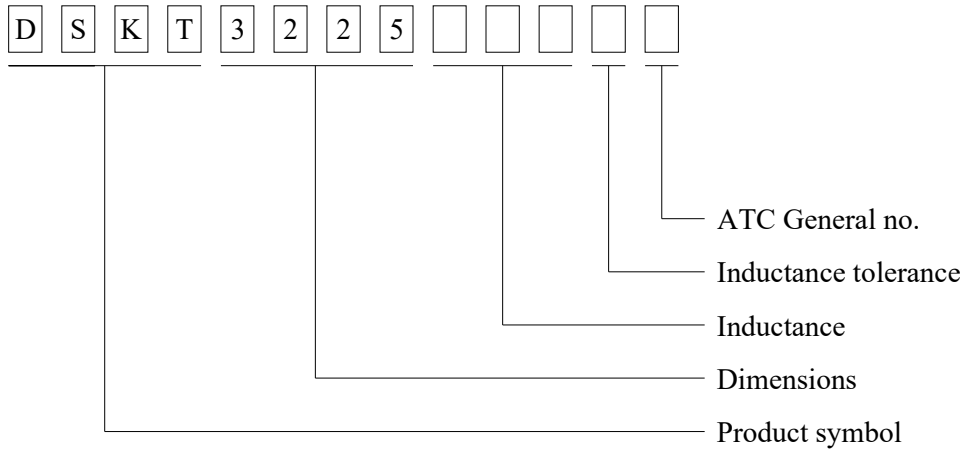
Note :

- Tolerance : J=±5% / K=±10% / M=±20%
- IDC base on $\Delta L / L0A=10\%$



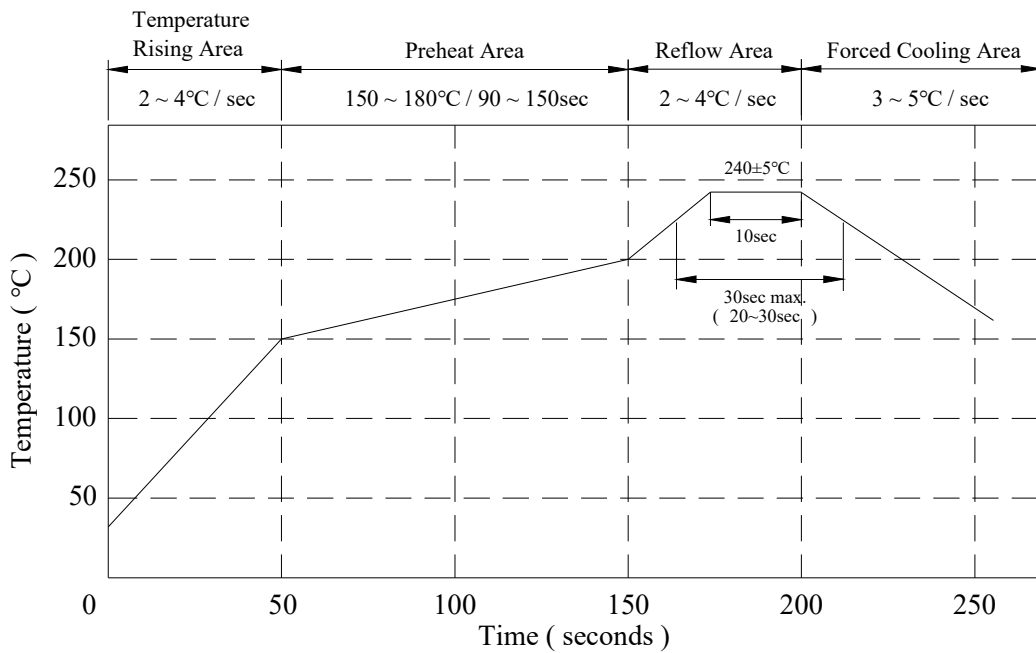
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6 DWG Expression :



7 Classification Reflow Profile :

Peak Temp : 245°C max.
 Max time above 225°C : 30sec max.
 Max time above 200°C : 50sec max.





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8 Reliability Test :

1-1.Mechanical Performance

No	Item	Specification	Test Method
1	Vibration	Appearance : No damage Inductance : within±10% of initial value	Test device shall be soldered on the substrate Oscillation Frequency : 10 to 55 to 10Hz for 1min Amplitude : 1.5mm Time : 2hrs for each axis (X, Y & Z), total 6hrs
2	Resistance to Soldering Heat	Appearance : No damage	Pre-heating : 150°C, 1min Solder Composition : Sn/Ag3.0/Cu0.5 Solder Temperature : 260±5°C Immersion Time : 10±1sec
3	Solder ability	The electrodes shall be at least 90% covered with new solder coating	Pre-heating : 150°C, 1min Solder Composition : Sn/Ag3.0/Cu0.5 Solder Temperature : 245±5°C Immersion Time : 4±1sec
4	Resistance to solvent	There must be no change in appearance or obliteration of marking.	Inductors must withstand 6 minutes of alcohol or water.

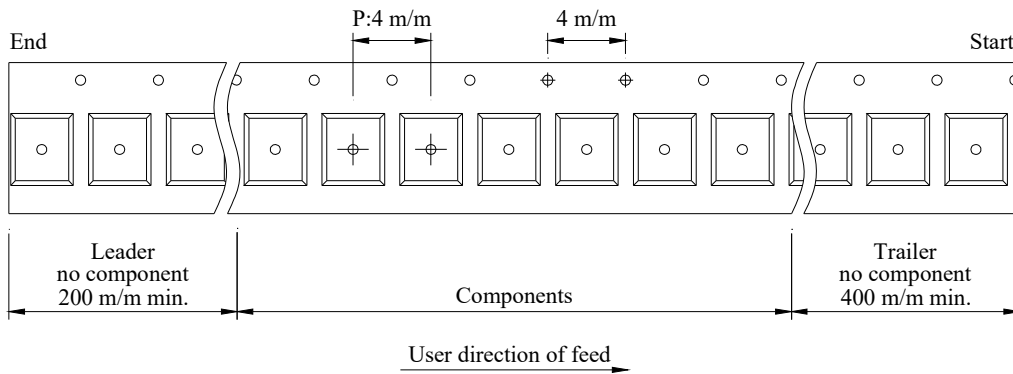
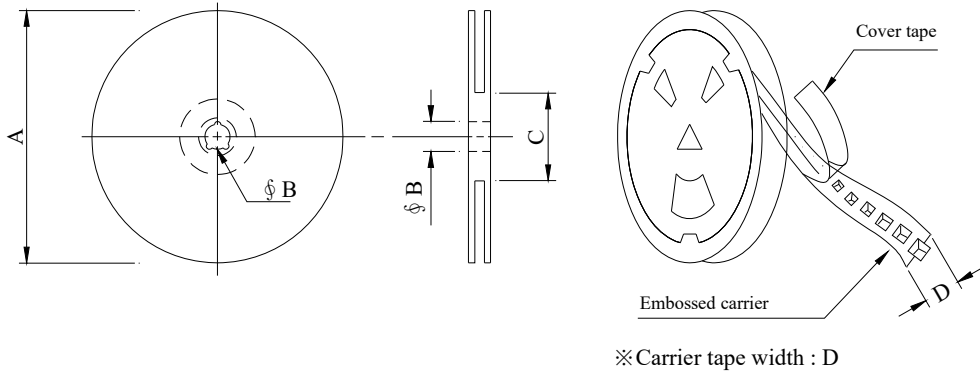
1-2.Environmental Performance

No	Item	Specification	Test Method		
1	Temperature Shock	Appearance : No damage Inductance : within±10% of initial value	10 cycles (Air to Air) 1 cycles shall consist of: 30 minutes exposure to -55 °C 30 minutes exposure to 125 °C 15 seconds maximum transition between temperatures		
2	Temperature Cycle		One cycle :		
			Step	Temperature (°C)	Time (min)
			1	-25±3	30
			2	25±2	3
			3	85±3	30
4	25±2	3			
			Total : 100cycles Measured after exposure in the room condition for 24hrs		
3	Humidity Resistance		Temperature : 40±2°C Relative Humidity : 90 ~ 95% Time : 1000hrs Measured after exposure in the room condition for 24hrs		
4	Heat Life		Temperature : 85±3°C Relative Humidity : 20% Applied Current : Rated Current Time : 1000hrs Measured after exposure in the room condition for 24hrs		
5	Cold Resistance		Temperature : -25±3°C Relative Humidity : 0% Time : 1000hrs Measured after exposure in the room condition for 24hrs		



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9 Packaging Information :



Reel type	A	B	C	D	Reel Q'ty
7-8	178mm	13mm	60mm	8mm	2000pcs