

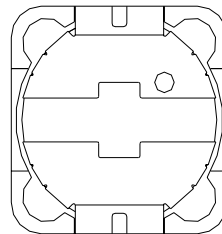
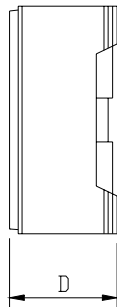
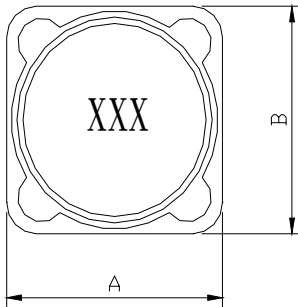


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EXTERNAL DIMENSIONS :

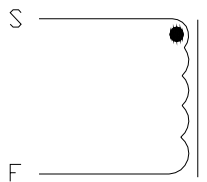


A : 12.0±0.5 m/m
B : 12.0±0.5 m/m
D : 8.0 Max. m/m

ELECTRICAL CHARACTERISTIC :

L(μH) : 1000±20% 1KHz
RDC(Ω) : 1.82 Max.
IDC(A) : 0.55 Max. (L0.55A MAX ≥ 0Ax75%)
INDUCTANCE DROP :25% MAX @ IDC 0.55 A

SCHEMATIC DRAWING :



ϕ Ts(Ref.)

"●" START FOR STAND



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TEST DATA

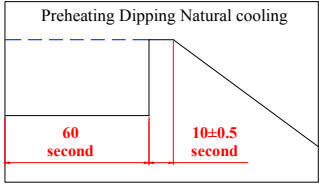
ELECTRICAL CHARACTERISTICS				DIMENSION			
MEAS. ITEM	L(μH)	DCR(mΩ)	IDC(A)	A	B	D	
TEST FREQ.	1KHz	Max.	Max.	m/m	m/m	m/m	
YOUR			L(0.55A)				
SPEC.	1000±20%	1.82	≥ 0Ax75%	12.0±0.5	12.0±0.5	8.0 Max.	
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
X							
R							



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AXDQ1280-102M



TEST ITEMS	SPECIFICATIONS	TEST CONDITIONS / TEST METHODS
<u>ELECTRICAL PERFORMANCE TEST</u>		
L	REFER TO STANDARD ELECTRICAL CHARACTERISTIC LIST.	CH-1061 OR EQUIV.
DCR		CH-502A OR EQUIV
RATED CURRENT		APPLIED THE CURRENT TO COILS THE INDUCTANCE CHANGE SHOULD BE LESS THAN 25% TO INITIAL VALUE AND TEMPERATURE RISE SHOULD NOT BE MORE THAN 40°C..
TEMPERATURE RISE TEST	40°C MAX (Δt)	1. APPLIED THE ALLOWED DC CURRENT FOR 4 HOURS. 2. TEMPERATURE MEASURE BY DIGITAL SURFACE THERMOMETER.
OVER LOAD TEST	NO EVIDENCE OF ELECTRICAL DAMAGE	APPLIED 1.5 TIMES OF RATED ALLOWED DC CURRENT TO INDUCTORS FOR A PERIOD OF 5 MINUTES.
<u>MECHANICAL PERFORMANCE TEST</u>		
SOLDER HEAT RESISTANCE	1. INDUCTORS SHOULD HAVE NO EVIDENCE OF ELECTRICAL AND MECHANICAL DAMAGE 2. INDUCTANCE SHOULD NOT CHANGE MORE THAN $\pm 10\%$ 3. SOLDER MATERIAL WILL BE LEAD FREE.	PREHEAT: 150°C 60 SECS SOLDER TEMPERATURE: 255 \pm 5°C FLUX: ROXIN.. DIP TIME: 10 \pm 0.5 SECS.
VIBRATION TEST (LOW FREQUENCY)		 <p>1. AMPLITUDE: 1.5 mm 2. FREQUENCY: 10-55-10 Hz / 1 MIN 3. DIRECTION: X, Y, Z 4. DURATION: 2 HRS / X, Y, Z</p>
SHOCK TEST		INDUCTORS SHOULD BE DROPPED 10 TIMES FROM A HEIGHT OF 1m ONTO 3cm WOODEN BOARD.



COIL SPECIFICATION

AXDQ1280-102M



TEST ITEMS	SPECIFICATIONS	TEST CONDITIONS / TEST METHODS
<u>MECHANICAL PERFORMANCE TEST</u>		
SOLDERABILITY TEST	MORE THAN 90% OF TERMINAL ELECTRODE SHOULD BE COVERED WITH SOLDER.	<p>AFTER FLUXING, INDUCTOR SHALL BE DIPPED IN A MELTED SOLDER BATH AT $255 \pm 5^\circ\text{C}$ FOR 5 SECONDS</p>
COMPONENT ADHESION (PUSH TEST)	1.5Kg Min	<p>THE DEVICE SHOULD BE REFLOW SOLDERED ($255 \pm 5^\circ\text{C}$ FOR 10 SECONDS) TO A TINNED COPPER SUBSTRATE. A DYNAMETER FORCE GAUGE SHOULD BE APPLIED TO THE SIDE OF THE COMPONENT. THE DEVICE MUST WITH- STAND A MINIMUM FORCE OF 1.5Kg WITHOUT AILURE OF THE TERMINATION .</p>
COMPONENT ADHESION (PULL TEST)	1.5Kg Min	<p>1.INSERT 10cm WIRE INTO THE REMAINING OPEN EYE BEND THE ENDS OF EVEN WIRE LENGTHS UPWARD AND WIND TOGETHER 2. TERMINAL SHALL NOT BEREMARKABLY DAMAGED</p>
FLEXTURE STRENGTH	THE FORCES APPLIED SHOULD NOT DAMAGE THE DIELECTRIC.	<p>SOLDER A CHIP ON A TEST SUBSTRATE, BEND THE SUBSTRATE BY 2mm AND RETURN.</p>
RESISTANCE TO SOLVENT TEST	THERE SHOULD BE NO CASEDEFORMATION, CHANGE IN APPEARANCE OR BITERATION OF MARKING	INDUCTERS SHALL WITHSTAND 6 MINTES OF ALCOHOL



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AXDQ1280-102M



TEST ITEMS	SPECIFICATIONS	TEST CONDITIONS / TEST METHODS
<u>CLIMATIC TEST</u>		
TEMPERATURE CHARACTERISTIC	1.APEARANCE:NO DAMAGE 2.INDUCTANCE:WITHIN±10% OF INITIAL VALUE.	- 40°C ~ +85°C
HUMIDITY TEST		60°C±2°C / 96±2 HOURS
LOW TEMPERATURE STORAGE		1.TEMPERATURE:- 25°C±2°C 2.TIME: 96±2 HOURS
THERMAL SHOCK TEST		1.-25±5°C FOR 30 MINUTES. +80±5°C FOR 30 MINUTES. 2.TOTAL: 10 CYCLES <div style="text-align: right;"> </div>
HIGH TEMPERATURE STORAGE		1.APPLIED CURRENT: MAX RATED CURRENT 2.TEMPERATURE:80°C±2°C
NOTE : INDUCTORS ARE TO BE TESTED AFTER 2 HOUR AT ROOM TEMPERATURE.		
<u>LIFE TEST</u>		
HIGH TEMPERATURE LOAD LIFE TEST	INDUCTORS SHOULD BE NO EVIDENCE OF SHORT OR OPEN CIRCUIT	1. TEMPERATURE: 80±2°C 2. TIME: 500±12 HOURS 3. LOAD: ALLOWED DC CURREN
HUMIDITY LOAD LIFE TEST		1. TEMPERATURE: 60±2°C 2. R.H.: 90-95% 3. TIME: 500±12 HOURS 4. LOAD: ALLOWED DC CURREN



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AXDQ1280-102M



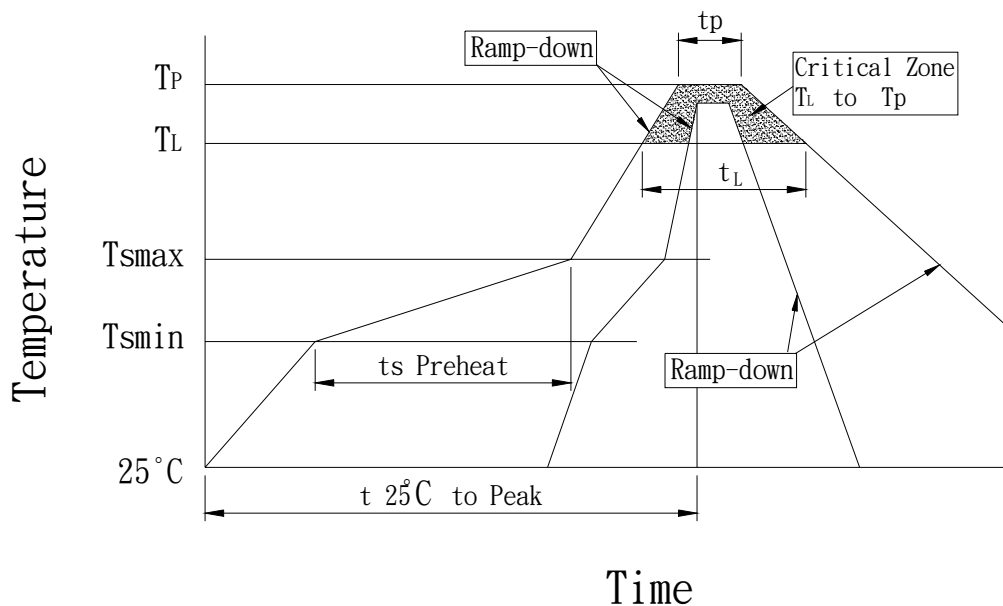
RECOMMENDED SOLDERING CONDITIONS :

CLASSIFICATION REFLOW PROFILES

Profile Feature	Sn-Pb Eutectic Assembly		Pb-Free Assembly	
	Large Body	Small Body	Large Body	Small Body
Average ramp-up rate (T _L to T _P)	3°C/second max.		3°C/second max.	
Preheat				
-Temperature Min (T _{smin})	100°C		150°C	
-Temperature Max (T _{smax})	150°C		200°C	
-Time (min to max) (ts)	60-120 seconds		60-180 seconds	
T _{smax} to T _L				
-Ramp-up Rate			3°C/second max.	
Time maintained above:				
-Temperature (T _L)	183°C		217°C	
-Time (t _L)	60-150 seconds		60-150 seconds	
Peak Temperature (T _p)	225 +0/-5°C	240 +0/-5°C	245 +0/-5°C	255 +5/-5°C
Time within 5°C of actual Peak Temperature (t _p)	10-30 seconds	10-30 seconds	10-30 seconds	20-40 seconds
Ramp-down Rate	6°C/second max.		6°C/second max.	
Time 25°C to Peak Temperature	6 minutes max.		8 minutes max.	

Note : All temperatures refer to top side of the package. Measured on the package body surface.

REFLOW SOLDERINGS



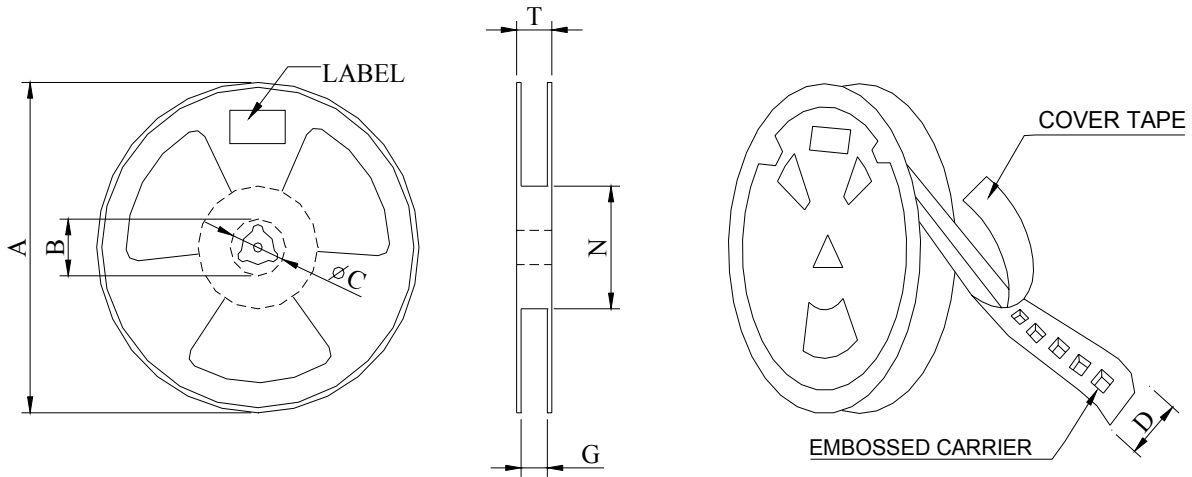


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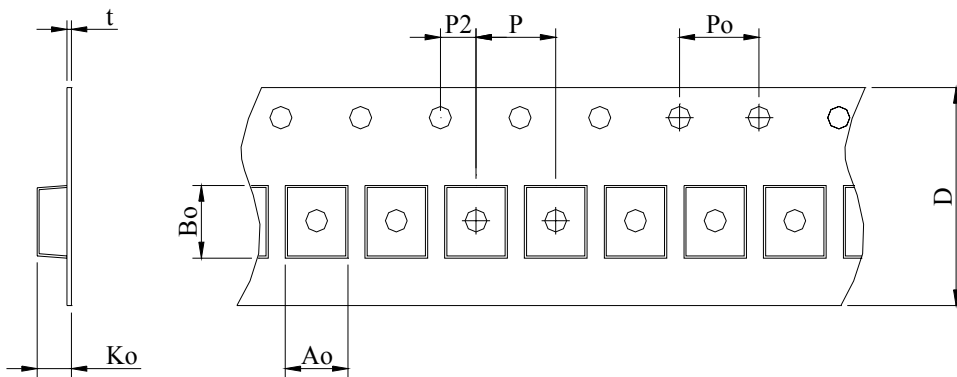
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PACKAGE :



*CARRIER TAPE WIDTH : D



STAYLE	DIMENSIONS (m/m)														
	Q'TY (PCS)	A	B	C	D	G	N	T	Ao	Bo	Ko	t	P	Po	P2
—	400	330	—	13.5 ±0.5	24.0 ±0.3	24.0 ±0.5	75.0 ±2.0	—	13.0 ±0.2	13.0 ±0.2	6.1 ±0.1	0.4 ±0.1	16.0 ±0.1	4.0 ±0.1	2.0 ±0.1