

Product Specification for Approval

WE ARE PLEASED IN SUBMITTING OUR SAMPLES WITH SPECIFICATION TO YOU FOR APPROVAL.

CUSTOMER	:	
DESCRIPTION	:	COMMON MODE CHOKE
MNC P/N	:	CM422SG102NB
VERSION	:	A0
CUSTOMER P/N	:	
ISSUED DATE	:	2020/4/26
PHOTO OF PRODUCT	:	
WEIGHT	:	0.35g
MADE IN	:	CHINA



APPROVED BY MNC		
PREPARED BY	CHECKED BY	APPROVED BY

APPROVED BY CUSTOMER
SIGNATURE OR STAMP

1. PLEASE SEND BACK US A COPY OF THE SPECIFICATION WITH YOUR STAMP OR SIGNATURE ONCE THE SAMPLES APPROVED.
2. IT WILL BE DEEMED THE SAMPLES TO BE APPROVED IF NO FEEDBACK.

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HISTORY FOR REVISED SPECIFICATION

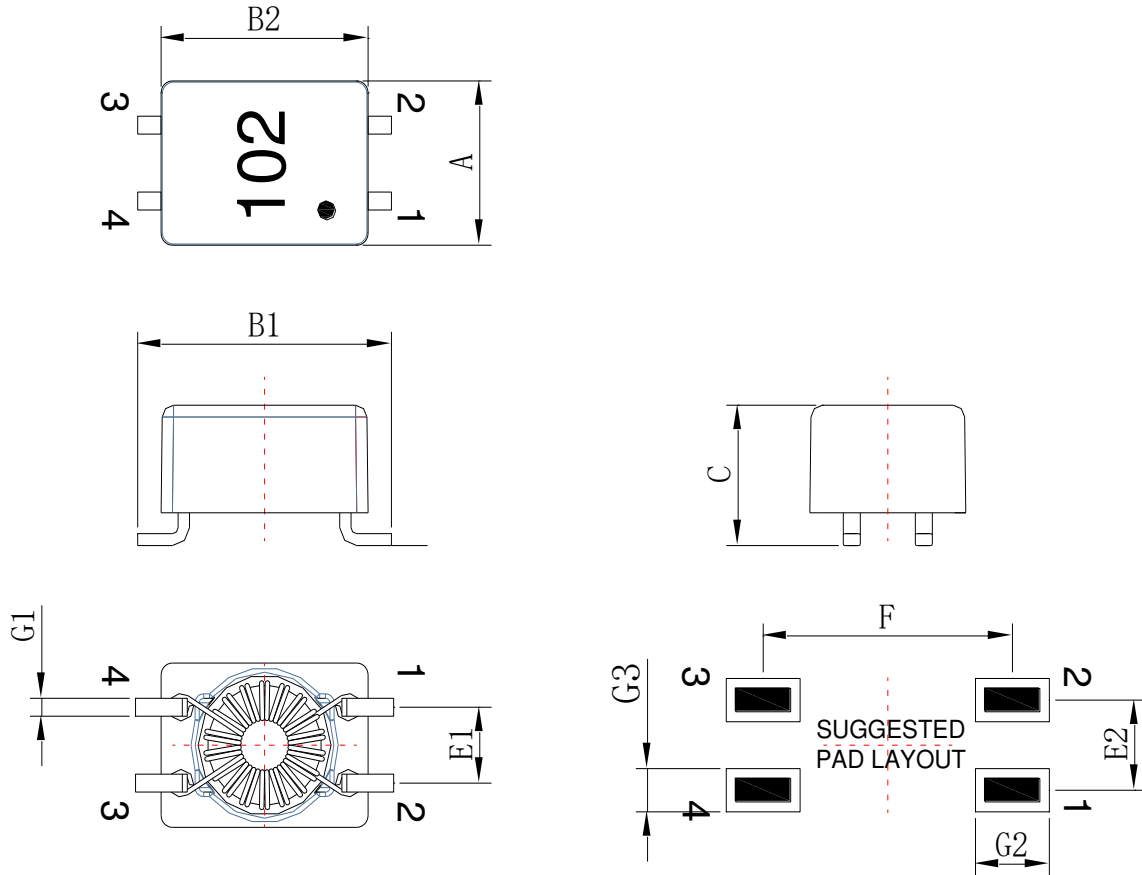
Part No. CM422SG102NB

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CHANGE RECORD

REV.	DESCRIPTION (Content or Reason For Change)	DATE	REVISOR
A0	Initial release	2020/4/26	Alakay

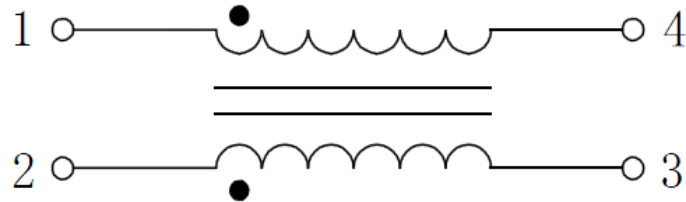
SPECIFICATION
Part No. CM422SG102NB
A. MECHANICAL:


1. UNITS: mm

 2. Unless otherwise specified all tolerances are: $\pm 0.25\text{mm}$

3. All pin length don't include tin icicles

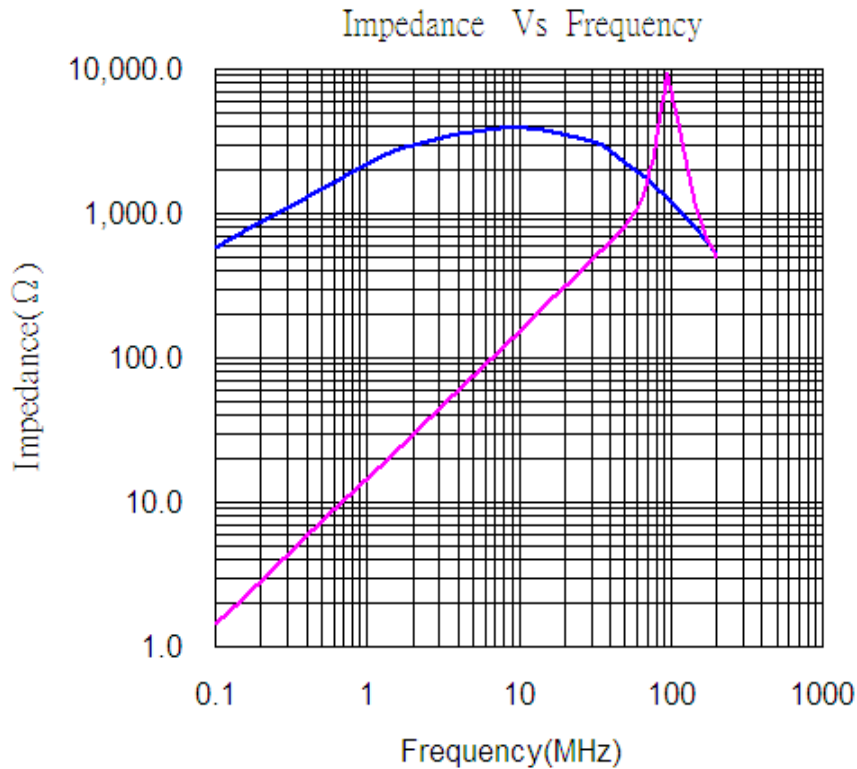
DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	/	/	6.40	/	/	0.252
B1	/	/	9.50	/	/	0.374
B2	/	/	7.50	/	/	0.295
C	/	/	5.60	/	/	0.220
E1	2.24	2.54	2.84	0.09	0.100	0.112
F	/	7.50	/	/	0.295	/
G1	/	0.40	/	/	0.016	/
E2	/	2.54	/	/	0.100	/
G2	/	2.72	/	/	0.107	/
G3	/	1.20	/	/	0.047	/

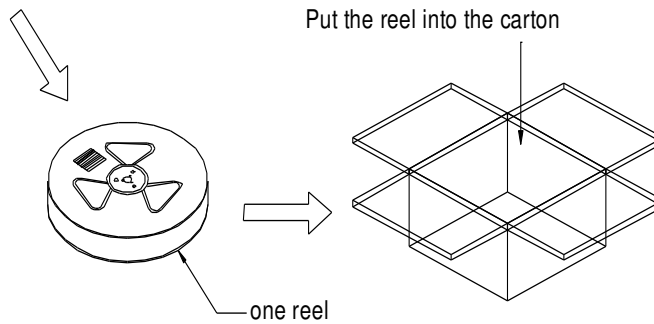
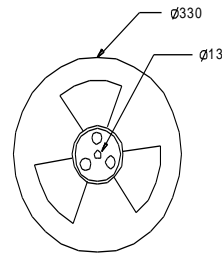
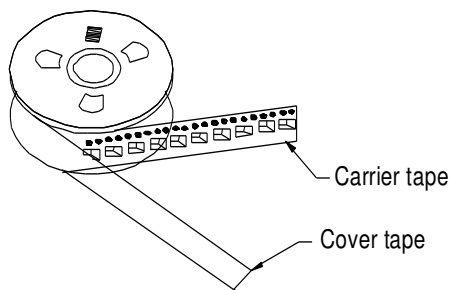
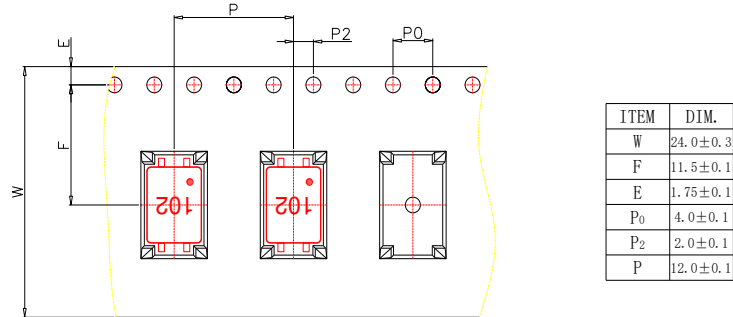
SPECIFICATION
Part No. CM422SG102NB
B. SCHEMATIC :

C. ELECTRICAL SPECIFICATION @25°C

ITEM	SPECIFICATION	TEST CONDITION	TEST EQUIPMENT
INDUCTANCE: 1-4 = 2-3	1.0mH ^{+50%} / _{-30%}	100KHz,0.1V	TH2819XB OR EQU.
DC RESISTANCE: 1-4 = 2-3	0.3Ω Max		TH2512B OR EQU.
TURNS RATIO: 1-4 : 2-3	1:1 ±5%		TH2819XB OR EQU.
HI-POT: 1-4 to 2-3	500Vac	1mA,1S,50Hz	TOS7200 OR EQU.
RATED CURRENT	ΔT≤40°C	0.5A Max	WK3260B+WK3265B
OPERATING TEMPERATURE RANGE	-40°C to 125°C (Including self temperature rise)		
STORAGE TEMPERATURE RANGE	-40°C to 125°C		

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D. IMPEDANCE CURVES:

F(MHz)	0.1	1	2	5	11.37	30	50	100	200
$ Z _{CM}(\Omega)$	571	2230	2940	3660	3920	3160	2290	1210	529
F(MHz)	0.1	50	70	90	95.4	100	150	200	
$ Z _{DM}(\Omega)$	1.5	816.4	1720	6590	9280	7220	1010	491.3	



PACKAGE
Part No. CM422SG102NB
1. PACKING:
a. PACKAGING AS BELOW (ONLY FOR REFERENCE):

b. Q'TY:

1000 pcs/reel
8 reel/carton
8000 pcs/carton

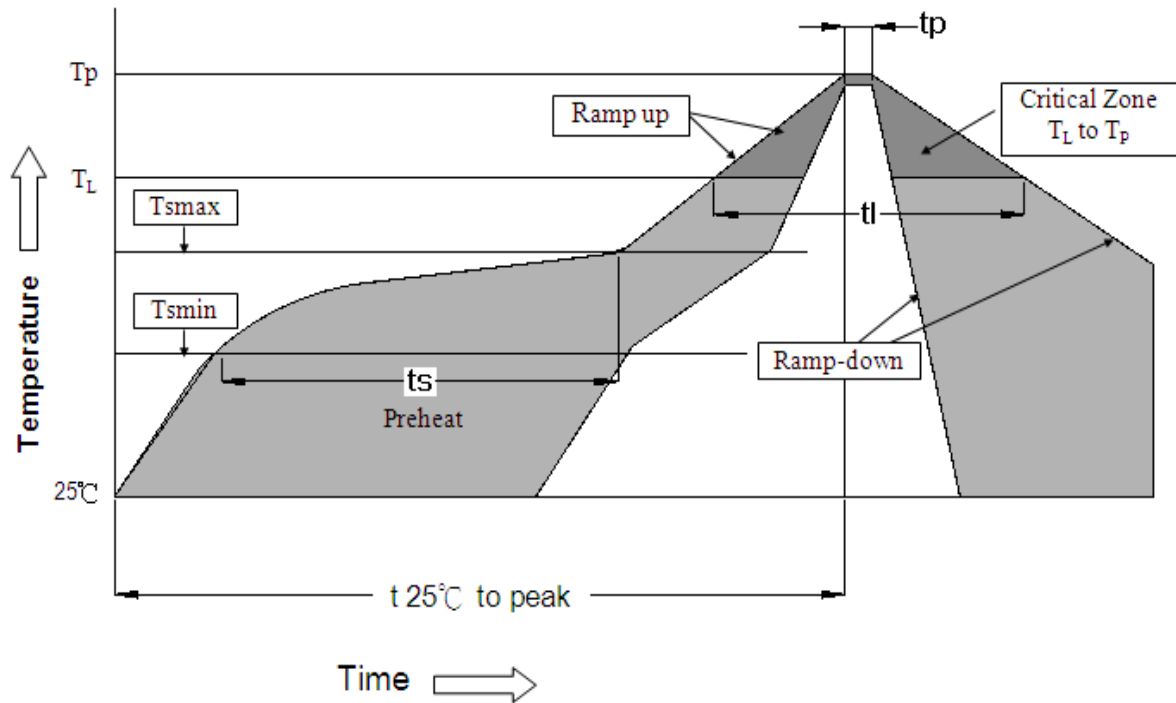
c. LABEL:

REMARK:

ABOVE PACKING IS FOR YOUR REFERENCE ONLY, WHICH MIGHT BE CHANGED WITHOUT NOTICE.

MATERIAL LIST
Part No. CM422SG102NB
BOM

MATERIAL LIST					
NO.	ITEM	MATERIAL	RATING	SUPPLIER OF MATERIAL	UL
1	CASE	PM 9630	150℃	SUMITOMO BAKELITE CO LTD OR EQU.	E41429
2	CORE	Ferrite Mn-Zn	-----	YEAN SHING TECHNOLOGY (DONGGUAN) LIMITED	N/A
		Ferrite Mn-Zn	-----	ZHONGSHAN CITY TANZHOU TOWN CHUANGRICI ELECTRONIC FACTORY OR EQU.	N/A
3	COPPER WIRE	*xUEW180	180℃	ZHUHAI SUNTEK WIRE CO LTD OR QUU.	E234867
		UEWH/U@	180℃	PACIFIC ELECTRIC WIRE & CABLE CO., LTD. OR QUU.	E201757
4	VARNISH	1-2577 #@	150℃	DOW SILICONES CORP OR EQU.	E81611
5	SOLDER	Sn99.3Cu0.7 LF-303	-----	ELECTROLOY METAL(SHENZHEN)CO.,LTD. OR EQU.	N/A

RECOMMENDED SOLDERING PROFILE
Part No. CM422SG102NB
1. RECOMMENDED REFLOW SOLDERING PROFILE:

 $T_L = 217^\circ\text{C}$
 $T_p = 245^\circ\text{C}$
 $t_s = 60-120\text{s}$ $T_{s\max} = 200^\circ\text{C}$ $T_{s\min} = 150^\circ\text{C}$
 $t_l = 60-150\text{s}$ $t_p = 20-40\text{s}$ $T_{25^\circ\text{C to peak}} = 8\text{min max}$

 Ramp up rate = 3°C/s max

 Ramp down rate = 6°C/s max

*RoHS Compliant

*Solder Paste SAC 305 Sn 96.5/Ag 3.0/Cu 0.5

*Silkscreen thickness: 0.15mm Min

2. MOISTURE SENSITIVE LEVEL:

2.1. Level: 1

2.2. Shelf Life: Unlimited

 2.3. Storage Condition: $\leq 30^\circ\text{C}/85\% \text{ RH}$