A FEATURES



- Small dimensions with high current ratings
- Operating Temperature range from -40°C to +125°C (Including Self-heating)
- 260°C reflow peak temperature qualified
- Custom design on request

B PART NUMBER SYSTEM

2CA ❶ 74 ❷ - 100 ❸ M ❹ F ❺

❶	Series
2CA	Series Code

❷	Dimension Code (L*W*H) (mm)	
	74 (7.6×7.6×4.6)	125 (12.5×12.5×6.0)
	129 (12.5×12.5×10.0)	

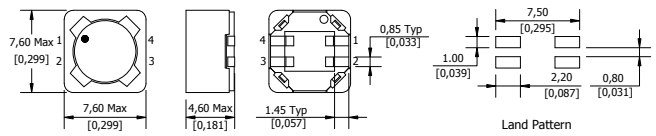
❸	Inductance Code
e.g.	Calculation
2R2	2.2μH
100	10×10^{0}μH = 10μH
101	10×10^{1}μH = 100μH

❹	Inductance Tolerance
M	±20%

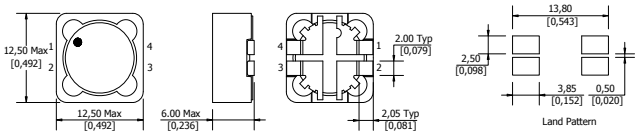
❺	RoHS Compliant

C DRAWINGS AND DIMENSIONS

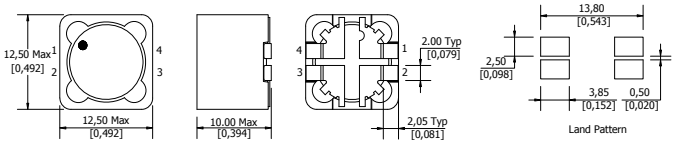
2CA74



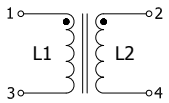
2CA125



2CA129



Schematic



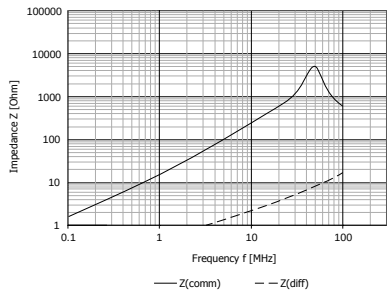
D SPECIFICATIONS

	$L_{1-3};L_{2-4}$[1]		DCR[2]	Ir[3]	U_{DC}	U_T
Part Number	**μH**	**Tolerance**	**Max.(Ω)**	**mA**	**V**	**V(AC)**
2CA74-4R7MF	4.7	±20%	0.090	1250	80	500
2CA74-100MF	10	±20%	0.120	1100	80	500
2CA74-101MF	100	±20%	0.950	350	80	500
2CA74-471MF	470	±20%	4.300	150	80	500
2CA125-1R0MF	1.0	±20%	0.010	4750	80	500
2CA125-100MF	10	±20%	0.050	2250	80	500
2CA125-101MF	100	±20%	0.280	900	80	500
2CA125-102MF	1000	±20%	2.800	250	80	500
2CA129-100MF	10	±20%	0.040	2750	80	500
2CA129-101MF	100	±20%	0.280	1000	80	500
2CA129-102MF	1000	±20%	2.500	300	80	500

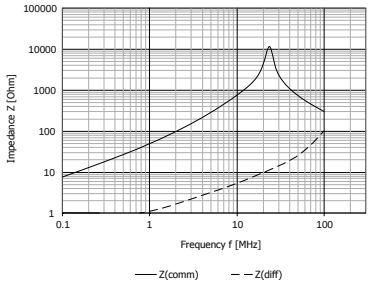
1. Inductance measured @ 100KHz, 0.3V at 25°C temperature.
2. DCR measured @ 25°C.
3. Ir for an approximate 40°C rise from 20°C ambient temperature.
4. Custom designs on request.
5. Specifications subject to change without notice please check our website for latest information.

E TYPICAL IMPEDANCE CURVES

2CA74-4R7MF



2CA74-100MF



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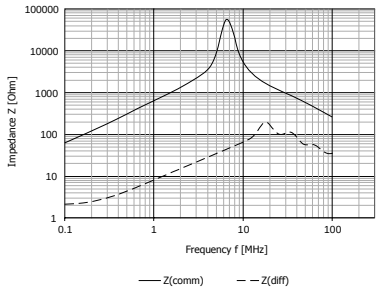

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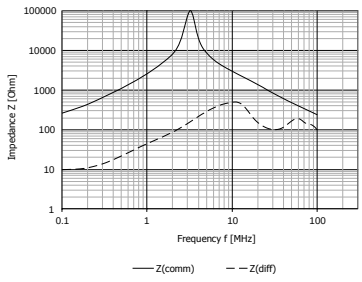

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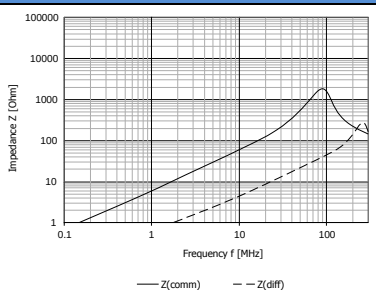
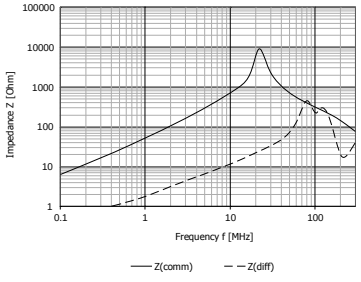
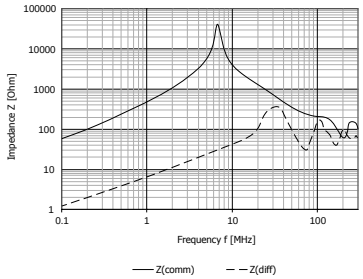
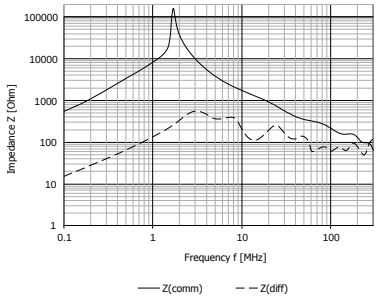
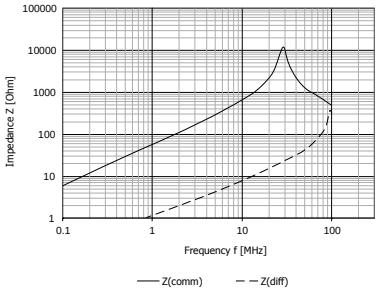
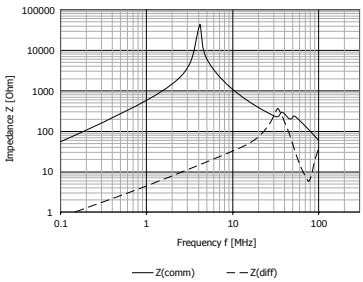
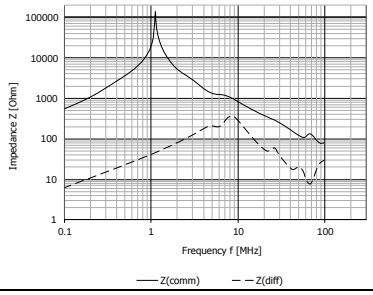


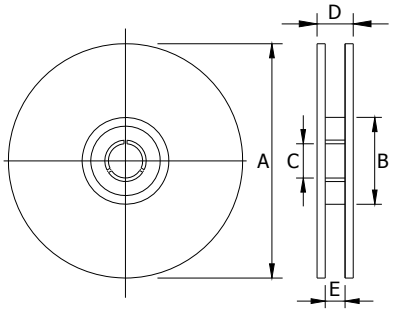
2CA125-100MF

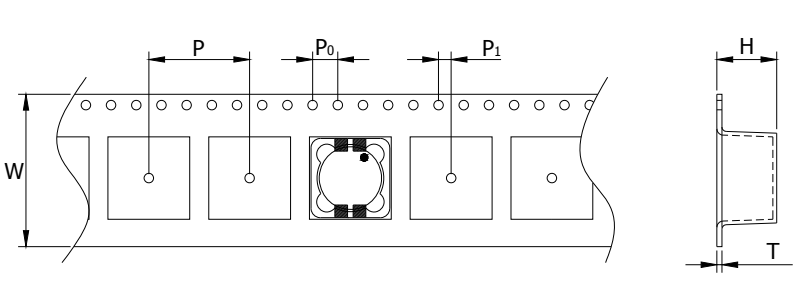


2CA125-101MF	2CA125-102MF	2CA129-100MF
		

2CA129-101MF	2CA129-102MF
	

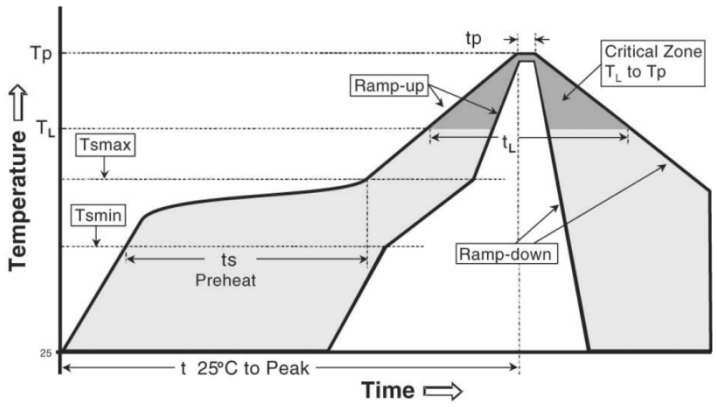
F TAPE AND REEL SPECIFICATIONS





Case Size	Parts per Reel	Reel Dimensions(REF)					Tape Dimensions(REF)					
		A	B	C	D	E	W	P	P_0	P1	H	T
2CA74	1000	330	100	13	22.5	16.5	16	12	4	2	4.7	0.4
2CA125	600	330	100	13	30	24.5	24	16	4	2	6.2	0.45
2CA129	350	330	100	13	30	24.5	24	16	4	2	10.2	0.45

G RECOMMENDED SOLDER REFLOW PROFILE



Profile Feature	Recommended Conditions
Average ramp-up rate (Tsmax to Tp)	3˚C/second max.
Preheat Temperature Min (Ts_{min}) Temperature Max (Ts_{max}) Time (Ts_{min} to Ts_{max})(ts)	 100˚C 150˚C 60-180 seconds
Time maintained above: Temperature (T_L) Time (t_L)	 217˚C 60-150 seconds
Peak Temperature (Tp)	See Table2
Time within 5˚C of actual Peak Temperature (tp)[2]	20-40 seconds
Ramp-down Rate	6˚C/second max.
Time 25˚C to Peak Temperature	8 minutes max

Table 1

Package Thickness	Volume mm^3 <350	Volume mm^3 350 - 2000	Volume mm^3 >2000
< 1.6mm	260˚C	260˚C	260˚C
1.6mm - 2.5mm	260˚C	250˚C	245˚C
>2.5mm	250˚C	245˚C	245˚C

Table 2

1. The above profiles are based on IPC/JEDEC J-STD-020C.
2. Exceeding these conditions may cause lowered product reliability.