

**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

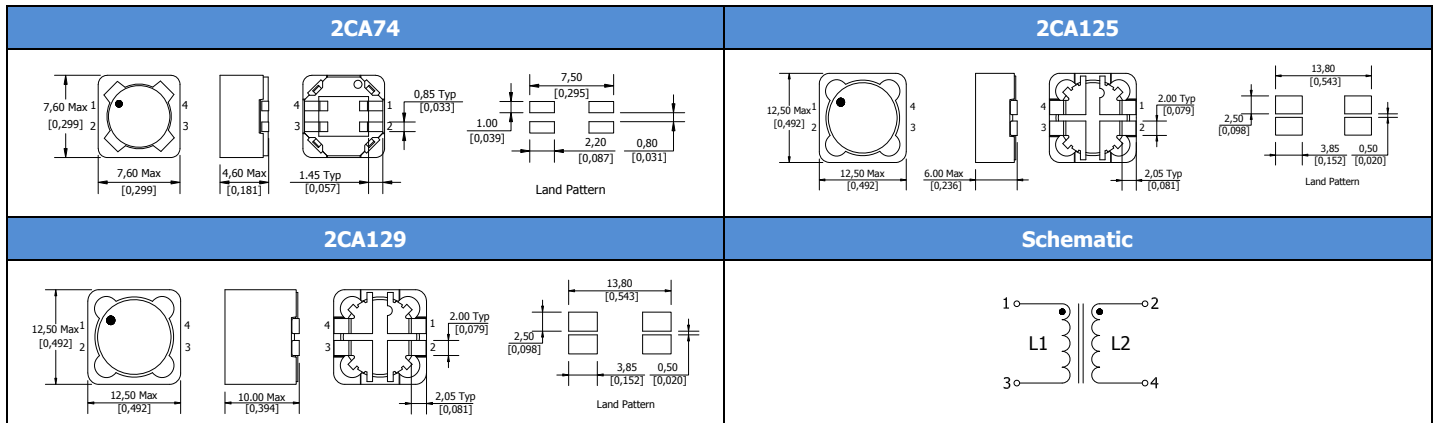


**B PART NUMBER SYSTEM**

$\underline{2CA}$      $\underline{74}$     -     $\underline{100}$      $\underline{M}$      $\underline{E}$   
 ①        ②        ③        ④        ⑤

①	Series	②	Dimension Code (L*W*H) (mm)	
2CA	Series Code		74 (7.6×7.6×4.6)	125 (12.5×12.5×6.0)
			129 (12.5×12.5×10.0)	
③	Inductance Code	④	Inductance Tolerance	
e.g.	Calculation	M	±20%	
2R2	2.2μH			
100	$10 \times 10^0 \mu\text{H} = 10 \mu\text{H}$			
101	$10 \times 10^1 \mu\text{H} = 100 \mu\text{H}$			
⑤	RoHS Compliant			

**C DRAWINGS AND DIMENSIONS**

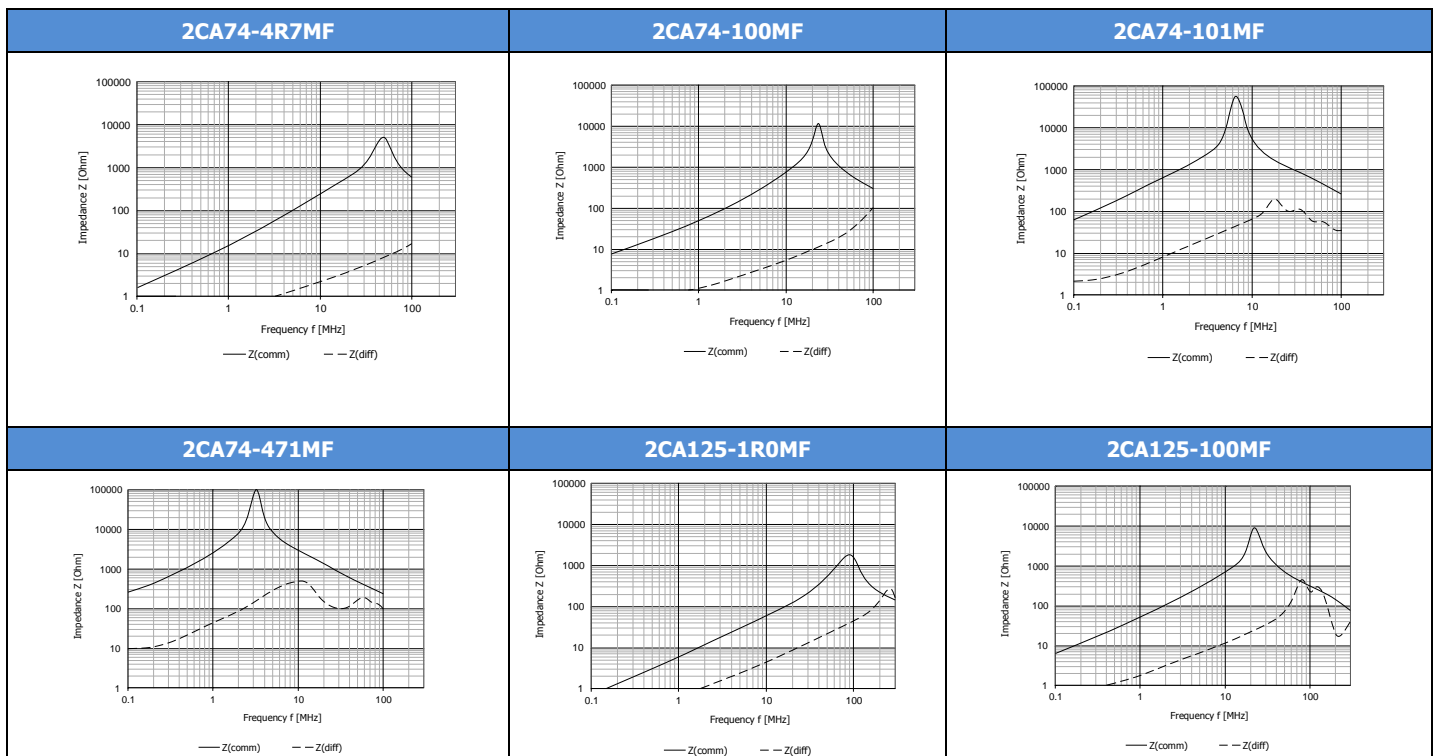


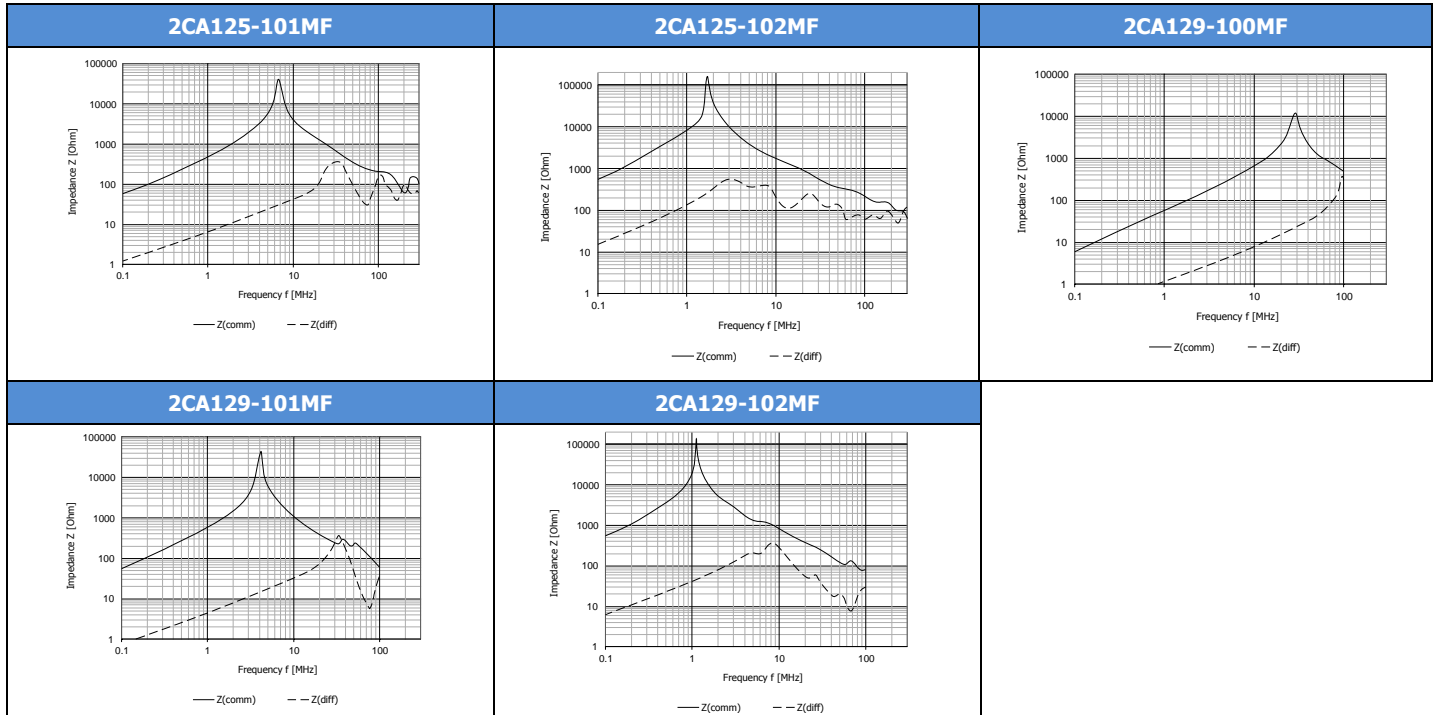
**D SPECIFICATIONS**

	$L_{1-3}; L_{2-4}^1$		DCR <sup>2</sup>	I <sub>r</sub> <sup>3</sup>	U <sub>DC</sub>	U <sub>T</sub>
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

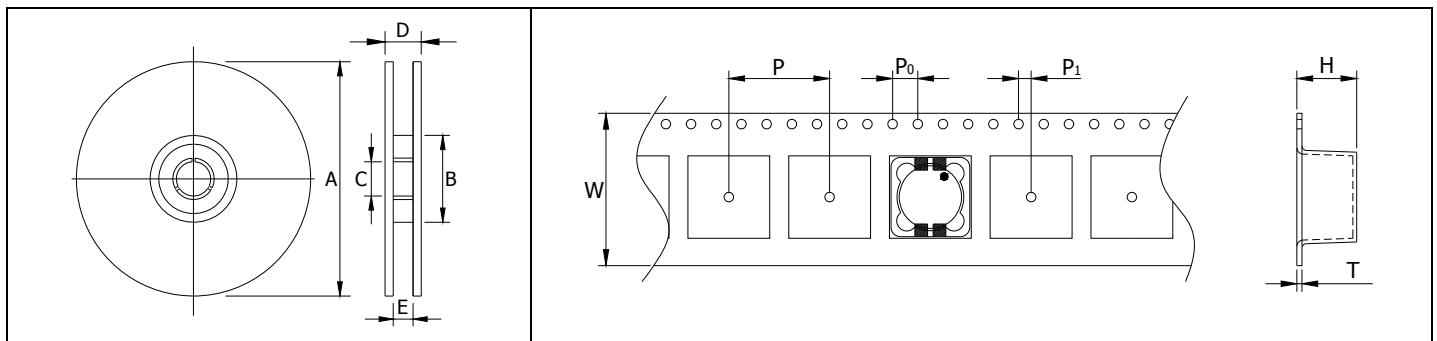
1. Inductance measured @ 100KHz, 0.3V at 25°C temperature.
2. DCR measured @ 25°C.
3. I<sub>r</sub> for an approximate 40°C rise from 20°C ambient temperature.
4. Custom designs on request.
5. Specifications subject to change without notice please check our website for latest information.

**E TYPICAL IMPEDANCE CURVES**



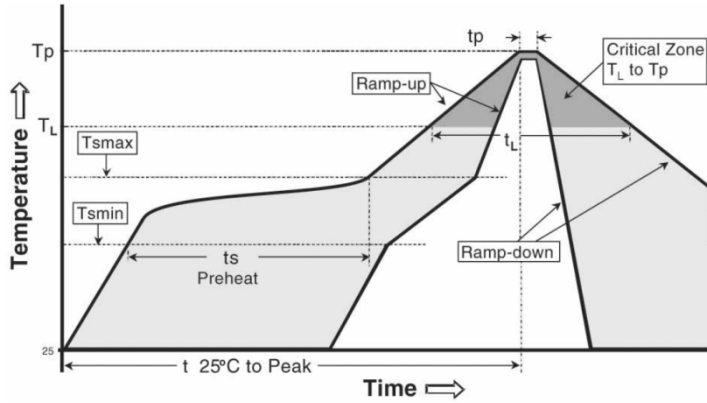


## F TAPE AND REEL SPECIFICATIONS



Case Size	Parts per Reel	Reel Dimensions(REF)					Tape Dimensions(REF)					
		A	B	C	D	E	W	P	P <sub>0</sub>	P <sub>1</sub>	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 (Tsmmax to Tp)	3°C/second max.
Preheat	
Temperature Min (Tsmmin)	100°C
Temperature Max (Tsmmax)	150°C
Time (Tsmmin to Tsmmax)(ts)	60-180 seconds
Time maintained above:	
Temperature (TL)	217°C
Time (tl)	60-150 seconds
Peak Temperature (Tp)	See Table2
Time within 5°C of actual Peak Temperature (tp) <sup>2</sup>	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 <sup>3</sup> <350	Volume mm <sup>3</sup> 350 - 2000	Volume mm <sup>3</sup> >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.