

■ Features

- Minature size,suitable for SMT.
- Using terminal electrode structure to restrain the parasitic component effect quite caused by lead.
- Execellent in solderability and heat resistance.
- Best frequency special property and intense ability to resist interference.
- Operating temperature:-40℃ ~ +85℃.

■ Applications

- Protable communication equipment and PDA,high speed electronic device.
- Used for radiation high speed noise suppression.

■ Product Identification

$\frac{\text{YWQD}}{(1)}$
 $\frac{\square\square\square\square}{(2)}$
 $-\frac{\square\square\square}{(3)}$
 $-\frac{\square}{(4)}$

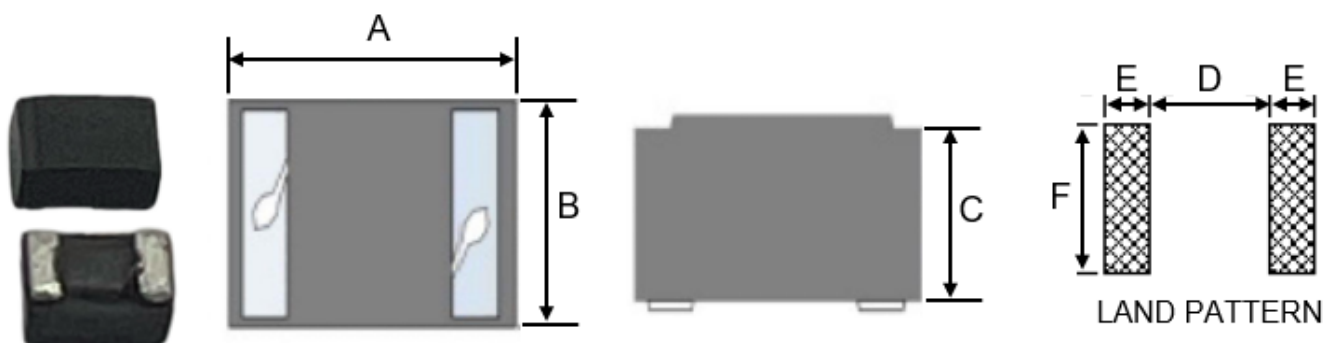
(1) : Type

(2) : Dimensions

(3) : Inductance value

(4) : Inductance Tolerance: M=±20%,K=±10%,J=±5%

■ Shapes and Dimensions (Unit: mm)



TYPE	A	B	C	D Typ.	E Typ.	F Typ.
YWQD1608	1.60±0.15	1.10±0.15	1.00±0.15	0.64	0.64	1.02

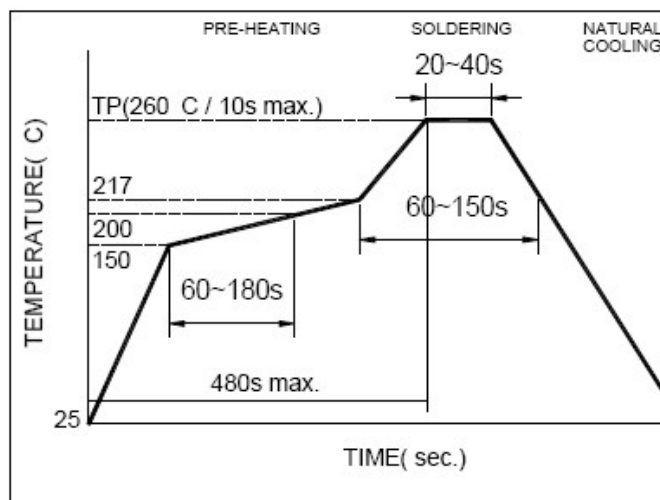
■ YWQD1608 Series

Part Number	L (uH)	Freq. (MHz)	Q Typ.	SRF Typ. (MHz)	Rdc±30% (Ω)	Isat Typ. (mA)	Irms Typ. (mA)
YWQD1608-1R0M	1.0±20%	1	9	350	0.21	1100	720
YWQD1608-1R5M	1.5±20%	1	9	300	0.39	650	520
YWQD1608-2R2M	2.2±20%	1	9	250	0.46	680	480
YWQD1608-4R7M	4.7±20%	1	9	100	0.70	450	400
YWQD1608-6R8M	6.8±20%	1	9	50	1.25	360	300
YWQD1608-100M	10±20%	1	9	25	1.30	270	380
YWQD1608-150M	15±20%	1	9	25	2.00	270	230
YWQD1608-220M	22±20%	1	9	10	3.90	220	160

- ※ Rating DC current:temperature rise(ΔT) is 40 °C approximately at Irms.
- ※ Saturation DC current:Inductance drop approximately 30% of L0 at Isat.
- ※ Storage temp.: -10°C ~ + 40°C R.H.:65% Max.
- ※ Moisture sensitivity level(MSL)2(1 year floor life at <30°C/65% relative humidity)

■ Soldering Conditions

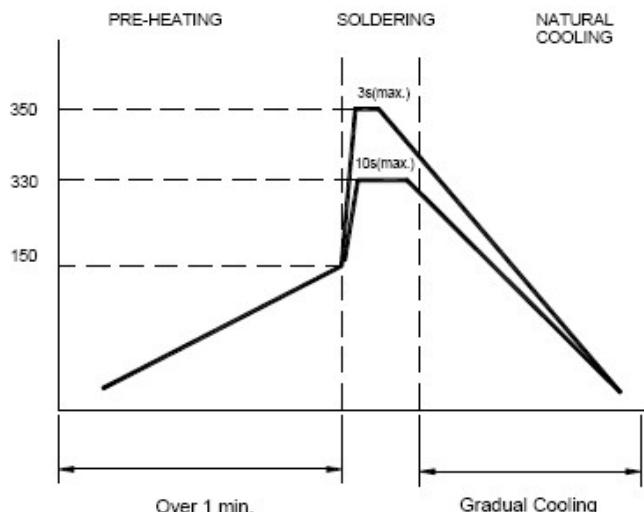
Figure 1.
Re-flow
Soldering
(Lead Free)



Note:

- Preheat circuit and products to 150°C
- 260°C tip temperature (max)
- Reflow times: no more than 2 times
- Solder paste thickness: the best 0.08mm is, but max is 0.1mm

Figure 2.
Hand
Soldering



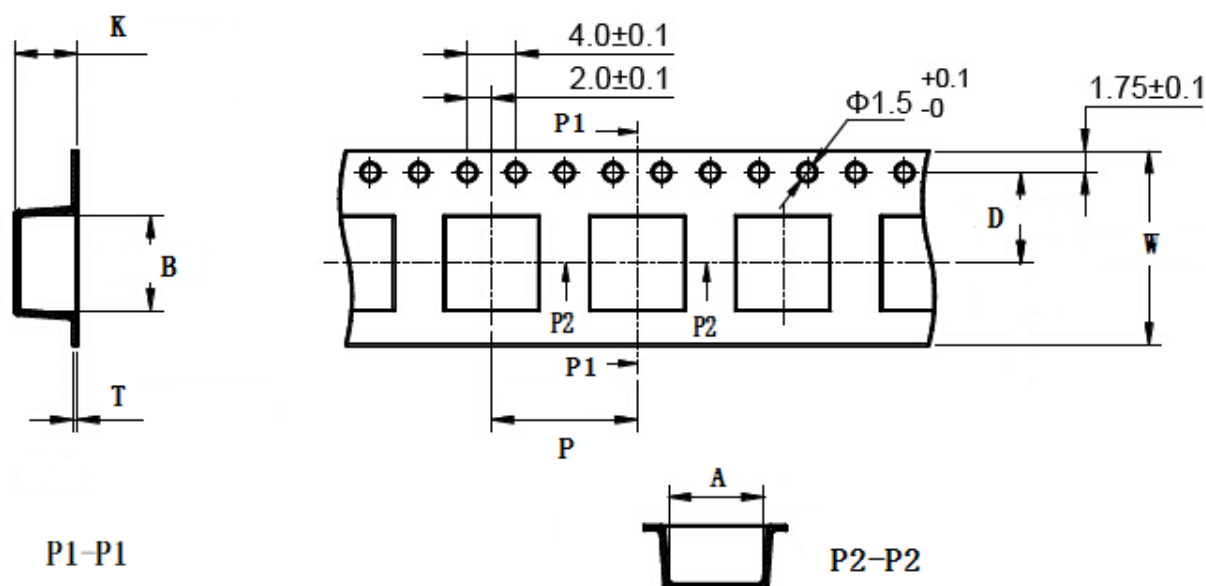
Note:

- Use a 20 watt soldering iron with tip diameter of 1.0mm
- Limit soldering time to 3 sec.

■ Appearance Standard

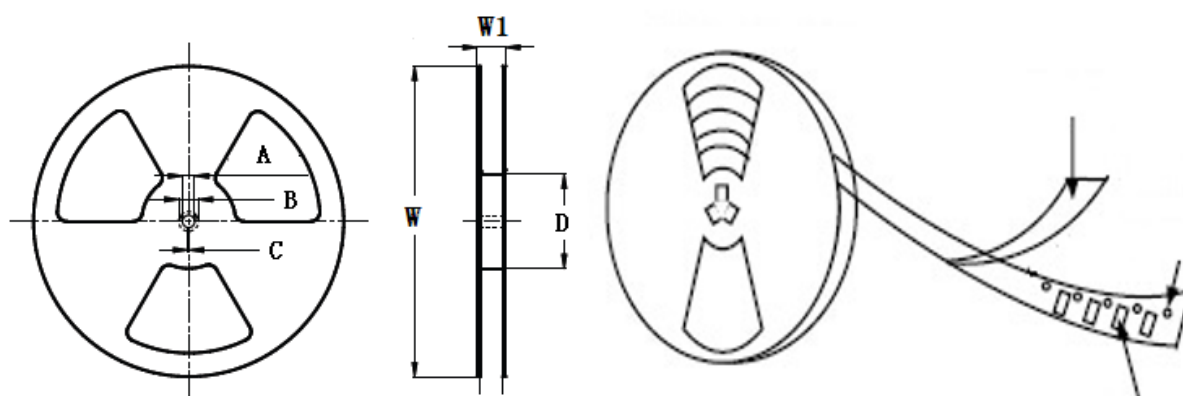
Appearance Defect	Graphic	Judging Standard
Copper wire exposed		Area of copper wire exposed in magnetic shield area less than 0.06 square millimeter is OK.

■ Taping Dimensions(Unit:mm)



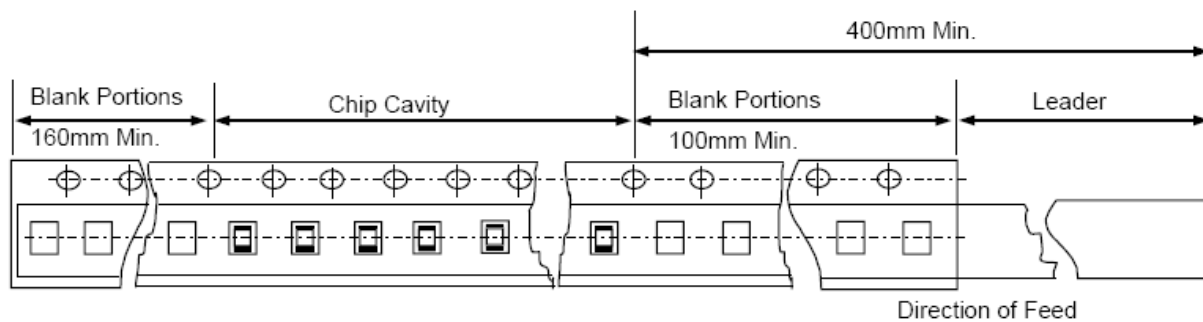
TYPE	W	A	B	D	P	K	T	MPQ
YWQD1608	8.0 ± 0.1	1.0 ± 0.2	1.8 ± 0.2	3.5 ± 0.1	4.0 ± 0.1	0.95 ± 0.1	0.22 ± 0.05	4000

■ Reel Dimensions(Unit:mm)



TYPE	W	W1	A	B	C	D
YWQD1608	178 ± 2.0	8.40 ± 1.50	4.3 ± 0.20	5.0 ± 0.10	3.0 ± 0.10	58 ± 2.0

■ Leader and Blank portion



1. Missing chips number within 0.1% of the number per reel or 1pcs, whichever is greater, and are not continuous.
2. The top tape and bottom tape shall not protrude beyond the edges of the tape and shall not cover sprocket hole.
3. Cumulative tolerance of sprocket holes, 10 pitches: $\pm 0.3\text{mm}$.
4. Peeling off force: 10gf to 100gf in the direction show below for 8mm carrier tapes and 10gf to 130gf for 12mm to 56mm wide carrier tapes.

