

1. PART NO. EXPRESSION :

SWDC0603-2R0MF
 (a) (b) (c) (d)(e)

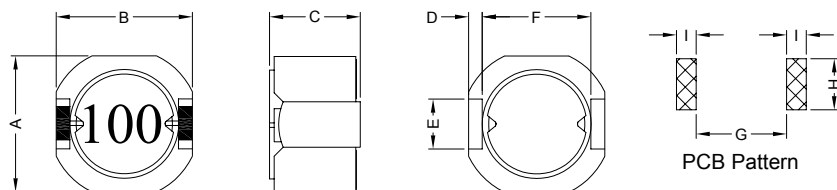
(a) Series code

(b) Dimension code

(c) Inductance code : 2R0 = 2.0uH

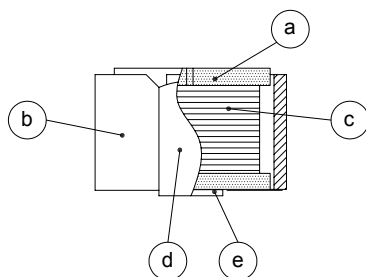
(d) Tolerance code : M = $\pm 20\%$

(e) F : RoHS Compliant

2. CONFIGURATION & DIMENSIONS :

Unit:m/m

A	B	C	D	E	F	G	H	I
6.2 Max.	6.30 $\pm$ 0.3	3.5 Max.	0.6 Typ.	2.0 Typ.	4.8 Typ.	4.6 Ref.	2.6 Ref.	1.0 Ref.

3. SCHEMATIC :**4. MATERIALS :**

(a) Core : DR Ferrite Core

(b) Core : RI Ferrite Core

(c) Wire : Enamelled Copper Wire

(d) Lead : Tinned Copper Wire

(e) Adhesive : Epoxy

5. GENERAL SPECIFICATION :

a) Irms : Temp. rise 40°C Max.

b) Isat : $\Delta L/L0A=30\%$ Max.

c) Storage temp. : -40°C to +125°C

d) Operating temp. : -40°C to +85°C

e) Resistance to solder heat : 260°C.10 secs

**RoHS Compliant**

NOTE : Specifications subject to change without notice. Please check our website for latest information.

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6. ELECTRICAL CHARACTERISTICS :

Part No.	Inductance (μ H)	Test Freq. (Hz)	RDC (m Ω) Typ.	Isat (A) Max.	Irms (A) Max.
SWDC0603-2R0MF	2.0 $\pm$ 20%	100K	19.1	2.997	3.30
SWDC0603-2R7MF	2.7 $\pm$ 20%	100K	22.0	2.691	3.12
SWDC0603-3R3MF	3.3 $\pm$ 20%	100K	25.7	2.573	2.81
SWDC0603-4R7MF	4.7 $\pm$ 20%	100K	31.6	2.084	2.51
SWDC0603-6R2MF	6.2 $\pm$ 20%	100K	35.0	1.835	2.41
SWDC0603-8R2MF	8.2 $\pm$ 20%	100K	43.5	1.542	2.11
SWDC0603-100MF	10.0 $\pm$ 20%	100K	49.4	1.491	1.97
SWDC0603-120MF	12.0 $\pm$ 20%	100K	62.0	1.282	1.73
SWDC0603-150MF	15.0 $\pm$ 20%	100K	77.0	1.103	1.54
SWDC0603-180MF	18.0 $\pm$ 20%	100K	81.5	1.046	1.52
SWDC0603-220MF	22.0 $\pm$ 20%	100K	106.0	0.968	1.29
SWDC0603-270MF	27.0 $\pm$ 20%	100K	140.0	0.821	1.11
SWDC0603-330MF	33.0 $\pm$ 20%	100K	162.0	0.755	1.02
SWDC0603-390MF	39.0 $\pm$ 20%	100K	192.0	0.700	0.96
SWDC0603-470MF	47.0 $\pm$ 20%	100K	209.0	0.677	0.89
SWDC0603-560MF	56.0 $\pm$ 20%	100K	257.0	0.602	0.80
SWDC0603-680MF	68.0 $\pm$ 20%	100K	320.0	0.556	0.71
SWDC0603-820MF	82.0 $\pm$ 20%	100K	420.0	0.468	0.61
SWDC0603-101MF	100.0 $\pm$ 20%	100K	477.0	0.449	0.57
SWDC0603-151MF	150.0 $\pm$ 20%	100K	664.0	0.367	0.48

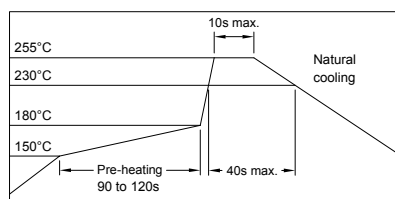
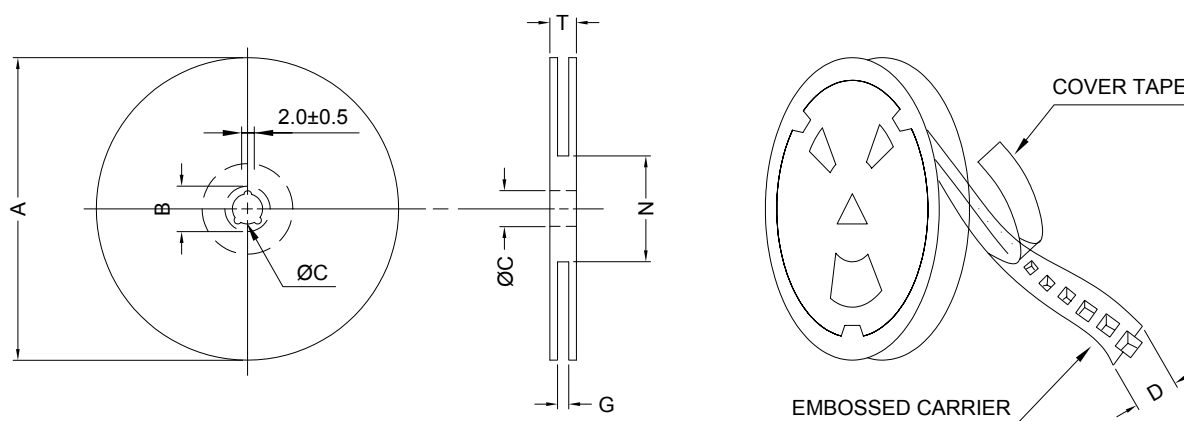
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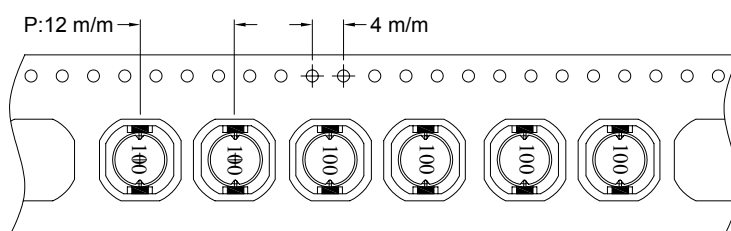
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**RECOMMENDED SOLDERING CONDITIONS
REFLOW SOLDERINGS****7. PACKAGING INFORMATION :****(1) CONFIGURATION**

* CARRIER TAPE WIDTH : D

**(2) DIMENSIONS**

Unit:m/m

STYLE	A	B	C	D	G	N	T
13-16	330	21±0.8	13	16	18 ⁺⁰	50 ⁻⁰	22.4

(3) Q'TY & G.W. PER PACKAGE

SERIES	INNER : REEL			OUTER : CARTON		
	Q'TY (PCS)	G.W. (gw)	STYLE	Q'TY (PCS)	G.W. (Kg)	SIZE (cm)
SWDC0603	1000	800	13-16	6000	9.2	40 x 40 x 24

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8. RELIABILITY AND TEST CONDITION :

TEST ITEM	SPECIFICATION	TEST CONDITION
SOLDERABILITY	MORE THAN 90% OF THE TERMINAL ELECTRODE SHALL BE COVERED WITH FRESH SOLDER.	PREHEAT : $125\pm 25^{\circ}\text{C}$ FOR 60 SECONDS SOLDER : H63A (EUTECTIC SOLDER) SOLDER TEMP. : $230\pm 5^{\circ}\text{C}$ FLUX : ROSIN DIP TIME : 4 ± 1 SECONDS
THERMAL SHOCK TEST (TEMP. CYCLE)	INDUCTANCE SHALL NOT CHANGE MORE THAN $\pm 20\%$	ROOM TEMP. $\longrightarrow$ $-25\pm 2^{\circ}\text{C}$ 15 MINUTES $\longrightarrow$ 30 MINUTES ROOM TEMP. $\longrightarrow$ $85\pm 2^{\circ}\text{C}$ 15 MINUTES $\longrightarrow$ 30 MINUTES TOTAL : 50 CYCLES
HUMIDITY RESISTANCE TEST		TEMPERATURE : $40\pm 2^{\circ}\text{C}$ HUMIDITY : 90 ~ 95% APPLIED CURRENT : PER SPEC. TIME : 500 HOURS
HIGH TEMP. RESISTANCE TEST		TEMPERATURE : $85\pm 2^{\circ}\text{C}$ APPLIED CURRENT : PER SPEC. TIME : 500 HOURS

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9. UL CARD :**OBMW2 September 28, 2000****Magnet Wire - Component****DONGGUAN PROSPERITY ELECTRIC WIRE & CABLE CO
SHIN SHUI KOU ADMINSTRATIVE DISTRICT CHAO TOU
TOWN, DONGGUAN GUANGDONG CHINA****E196072**

Mtl	Mark	Coat Typ		ANSI	Temp
Dsg	Dsg	BC	OC	Type	Class
PEW	—	Polyester	—	MW5	155
EIW	—	Polyesterimide	—	MW74-C	200
UEW	—	Polyurethane	—	MW5	130
UEW-NY	—	Polyurethane	Polyamide	MW28C	130

Marking: Company name and material designation on packages or reels.**See General Information Preceding These Recognitions****For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.****10/20/2000****Underwriters Laboratories Inc.****Card 1 of 1****RoHS Compliant**

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