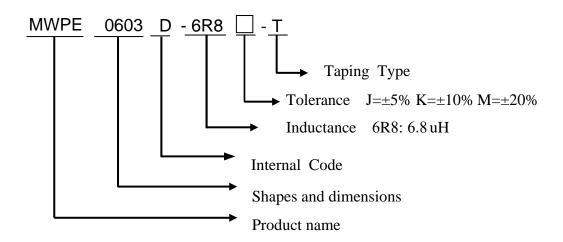


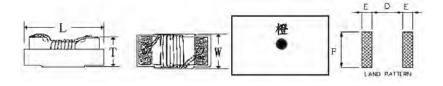
1. Scope

This specification applies wire wound power inductors MWPE0603D-6R8K-T to be delivered to user.

2. Product Identification

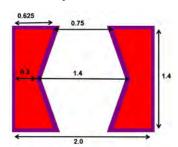


3. Shapes and Dimensions



CODE	L	W	T	Е	F	D	
DIMENSION	1.80MAX	1.12MAX	0.95MAX	0.64Typ.	1.02Typ.	0.64Typ.	

paste mask layer recommendation:





4. Test Instruments

ITEM	SPEC. RANGE	TEST CONDITION	TEST INSTRUMENTS	
L (μH)	6.80±10%	1MHz	HP4286A	
Q(品质系数)	8 MIN	1MHz	ПГ4280А	
DCR (Ω)	2.13 MAX		502BC	
Irms (mA)	200 MAX		VR116+VR7210	
SRF (MHz)	50 MIN		E5071C ENA	

- a. Storage temp.: -40 $^{\circ}$ C ~ +85 $^{\circ}$ C,R.H.: 30% ~ 70%,Operating temp.: -40 $^{\circ}$ C ~ +85 $^{\circ}$ C
- b. Moisture sensitivity level (MSL) 2 (1 year floor life at $< 30^{\circ}$ C /85% relative humidity).
- c. Failures in time(FIT)/Mean Time Between Failures(MTBF) 38 per billion hours/26,315,789 hours,calculated per Telcordia SR-332.

5. Test Data For Sample

TEST	L	Q(品质系数)	DCR	L	W	Т	
ITEM	(μΗ)	(min)	(Ω)	(mm)	(mm)	(mm)	
CON.	1MHz	1MHz	At 25℃	1.80MAX	1.25MAX	1.20MAX	
SPEC.	6.80±10%	8 MIN	2.13 MAX	1.6UNIAA	1.23WIAA	1.20MAX	
1	6.80	13.0	1.50	1.70	1.17	1.12	
2	6.77	11.0	1.52	1.72	1.16	1.11	
3	6.80	13.0	1.50	1.69	1.17	1.13	
4	6.82	11.0	1.50	1.71	1.15	1.11	
5	6.79	11.0	1.50	1.70	1.16	1.13	
6	6.83	12.0	1.52	1.69	1.15	1.11	
7	6.79	11.0	1.50	1.72	1.17	1.12	
8	6.79	12.0	1.51	1.70	1.16	1.13	
9	6.78	13.0	1.52	1.69	1.17	1.12	
10	6.81	11.0	1.51	1.72	1.16	1.11	
X	6.80	11.80	1.51	1.70	1.16	1.12	
R	0.06	2.00	0.02	0.03	0.02	0.02	



7. Reliability Test

TEST ITEM	SPECIFICATION	TEST CONDITION	
Rating current	According to product specifications	Current sources:33010D	
Inductance	According to product specifications	Test Frequency:0.252~250MHz Test Equipment:HP4291A HP4286A HP4287A HP4284A Test Fixture:16193Aor16334A	
Q	According to product specifications	Test Frequency:0.252~1500MHz Test Equipment:HP4291A HP4286A HP4287A, Test Fixture:16193A or 16334A	
RDC	According to product specifications	Test Equipment:HP4263B	
SRF	According to product specifications	Test Equipment:HP4291A Test Fixture:16193A	
Solderability	The metalized area must have more then 90% of solder coverage	Soldering Temp:230±5°C Dipping time:5±1S	
Resistance to soldering heat	No evidence of mechanical damage, The mealized arer must have more then 75% of solder coverage. Inductance change less than ±5% Q change less than ±10%.	Soldering Temp:260±5°C Dipping time:10±1S	
Thermal Shock No evidence of mechanical damage,Inductance change less than±5%, Q change less than±10%		A cycle contain: Step 1: -40 ℃ ,30Min Step 2: 85 ℃ ,30Min Cycle Times:10	

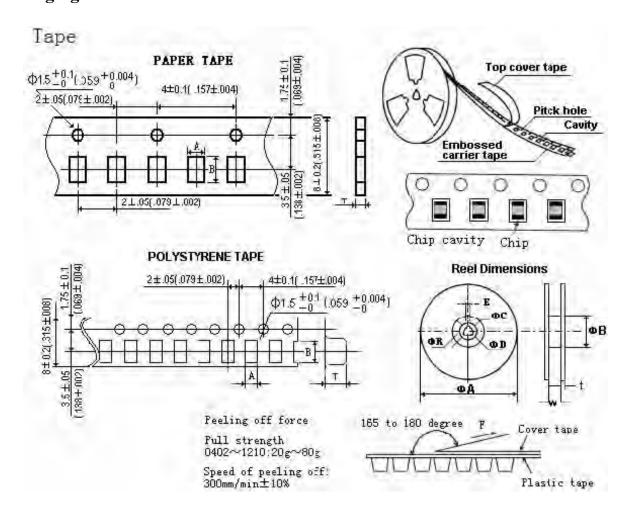


TEST ITEM	SPECIFICATION	TEST CONDITION		
High Temperature Storage No evidence of mechanical damage, Inductance change less than±5%, Q change less than±10%		Test Temperature:125±2°C (Ceramic core)85±2°C (Ferrite core) Test Time:96±2Hours		
Low Temperature Storage	No evidence of mechanical damage, Inductance change less than±5%, Q change less than±10%	Test Temperature:-40±2℃ Test Time:96±2Hours		
Moisture Resistance	No evidence of mechanical damage, Inductance change less than±5%, Q change less than±10%	Test Temperature:50±2°C Test Time:100Hours relative humidity:90~95%		
Vibration No evidence of mechanical damage, Inductance change less than±5%, Q change less than±10%		Amplitude:1.5mm X Y、Z each direction for 1Hour and 45min Frequency range:10~55~10Hz(min)		
Component Adhesion No evidence of mechanical damage , No evidence of peel off or broken , keep coutinuity of Winding		Force:2Kg Test Time:5±1sec		
Resistance to bend	No evidence of mechanical damage	Camber:20mm Test Board:Glass-Epoxy board Thickness:8mm Pressure jig Pressure jig		
Life No evidence of mechanical damage, Inductance change less than±5%,Q change less than±10%		Test Temperature:85±2°C Test Time:1000Hours with rating current		





8. Packaging



	A	В	T	
膠帶 0603	1.15	1.83	0.95	

unit	ФА	ΦВ	ΦС	ΦD	Е	W	t	R
mm	178	60	13	21	2	8.4	2	1

包装数量(PACKAGING QUANTITY)

规格	0603
數量	4000

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CR54NP-8R5MC 70F224AI MGDQ4-00004-P MHL1ECTTP18NJ MHQ1005P10NJ MHQ1005P1N0S MHQ1005P2N4S MHQ1005P3N6S
MHQ1005P5N1S MHQ1005P8N2J PE-51506NL PE-53601NL PE-53602NL PE-53630NL PE-53824SNLT PE-92100NL PG0434.801NLT
PG0936.113NLT 9220-20 9310-16 PM06-2N7 PM06-39NJ A01TK 1206CS-471XJ HC2LP-R47-R HC2-R47-R HC3-2R2-R HCF13053R3-R 1206CS-151XG RCH664NP-140L RCH664NP-4R7M RCH8011NP-221L RCP1317NP-332L RCP1317NP-391L RCR1010NP-470M