

APPROVAL SHEET

CUSTOMER :

ITEM : SMD POWER INDUCTOR

PART NAME : NS7850-SERIES

SPEC : NS7850-SERIES

APPROVED	REFEERENCE

(Date : 2022-01-05)

TESTED	CHECKED BY	APPROVED BY



NAMSUN ELECTRONICS CO.,LTD



Na-3506, CHUNG ANG CIRCULATION COMPLEX 15

GYUNGINRO 53-GIL GURO-GU SEOUL 08217 , KOREA

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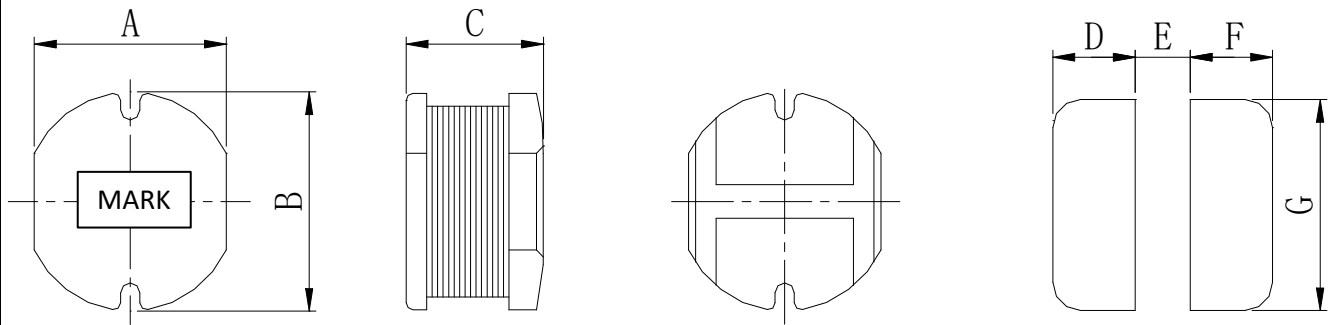
CUSTOMER :

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CUSTOMER :

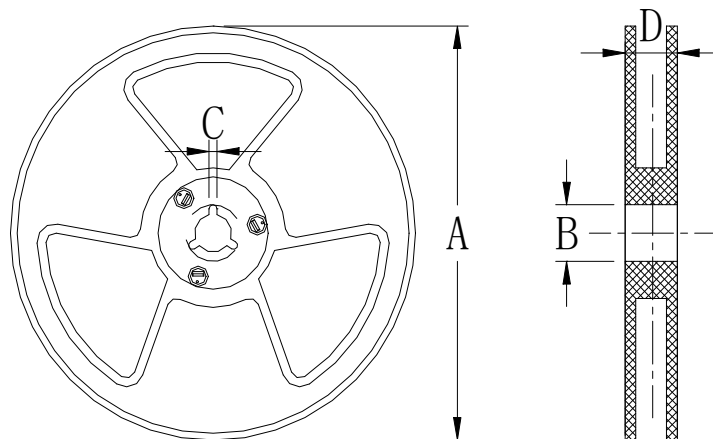
SPECIFICATION		SHEET NO.	2/5
PART NAME	NS7850	DESCRIPTION	7.8 x 5.0mm

2. DIMENSION (Unit:mm)



CODE	A	B	C	D	E	F	G
SMD 7850	7.0±0.3	7.8±0.3	5.0±0.5	3.0	2.0	3.0	7.5

3. PACKING SPEC (Unit:mm)

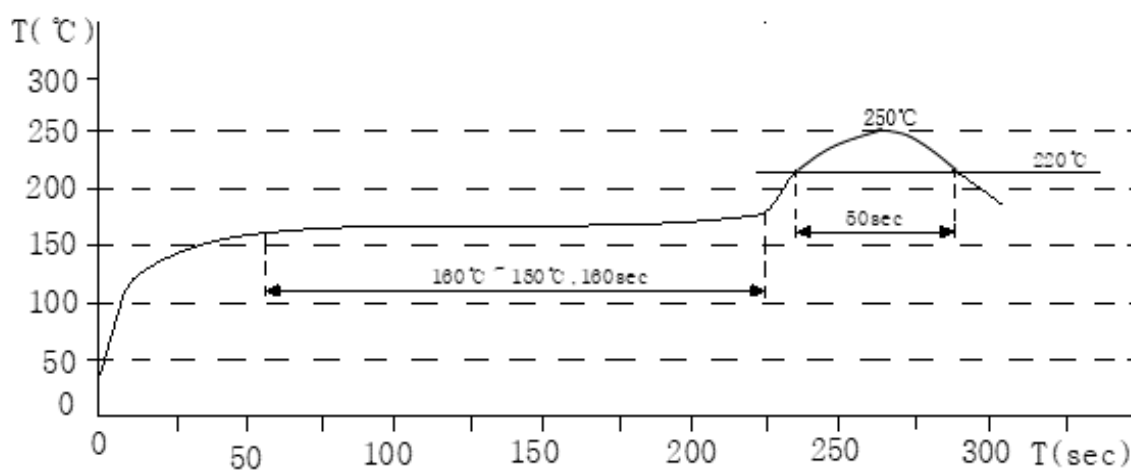


CODE	A	B	C	D
SMD 7850	Φ330±2.0	Φ90±2.0	2.3	21.5

CUSTOMER :

SPECIFICATION		SHEET NO.	3/5
PART NAME	NS7850	DESCRIPTION	7.8 x 5.0mm

4. SOLDER REFLOW



CUSTOMER :

SPECIFICATION			SHEET NO.		4/5	
PART NAME	NS7850		DESCRIPTION		7.8 x 5.0mm	
5. ELECTRICAL CHARACTERISTICS						
PART No.	NOMINAL INDUCTANCE (uH)	Tol.	Test freq.	DCR (Ω)MAX	IDC (A)MAX	
NS7850-1R0N	1.0	±30%	100KHz 0.25V	0.0130	5.20	
NS7850-1R5M	1.5	±20%		0.0200	5.00	
NS7850-2R2M	2.2			0.0300	4.10	
NS7850-2R7M	2.7			0.0169	4.60	
NS7850-3R3M	3.3			0.0195	4.00	
NS7850-3R9M	3.9			0.0234	4.00	
NS7850-4R7M	4.7			0.0260	3.80	
NS7850-5R6M	5.6			0.0273	3.10	
NS7850-6R8M	6.8			0.0325	2.80	
NS7850-8R2M	8.2			0.0390	2.52	
NS7850-100K	10	±10%	1KHz 0.25V	0.0416	2.31	
NS7850-120K	12			0.0494	2.00	
NS7850-150K	15			0.0715	1.81	
NS7850-180K	18			0.0845	1.59	
NS7850-220K	22			0.0910	1.50	
NS7850-270K	27			0.1066	1.28	
NS7850-330K	33			0.1196	1.20	
NS7850-390K	39			0.1495	1.08	
NS7850-470K	47			0.1755	1.05	
NS7850-560K	56			0.2080	0.93	
NS7850-680K	68			0.2340	0.83	
NS7850-820K	82			0.2730	0.78	
NS7850-101K	100			0.3250	0.73	
NS7850-121K	120			0.3900	0.65	
NS7850-151K	150			0.5200	0.58	
NS7850-181K	180			0.5980	0.51	
NS7850-221K	220	0.7930	0.48			
NS7850-271K	270	0.8840	0.40			
 NAMSUN ELECTRONICS CO.,LTD						

CUSTOMER :

SPECIFICATION		SHEET NO.	5/5		
PART NAME	NS7850	DESCRIPTION	7.8 x 5.0mm		
5. ELECTRICAL CHARACTERISTICS					
PART No.	NOMINAL INDUCTANCE (uH)	Tol.	Test freq.	DCR (Ω)MAX	IDC (A)MAX
NS7850-271K	270	±10%	1KHz 0.25V	0.8840	0.40
NS7850-331K	330			1.1300	0.39
NS7850-391K	390			1.3000	0.35
NS7850-471K	470			1.6800	0.33
NS7850-561K	560			1.9000	0.30
NS7850-681K	680			2.4700	0.27
NS7850-821K	820			2.8600	0.25
NS7850-102K	1mH			3.0800	0.25
NS7850-222K	2.2mH			8.1000	0.18
NS7850-472K	4.7mH			7.0000	0.23
NS7850-103K	10mH			31.2000	0.08
Rated current : The DC current at which the inductance deceases to 90% of its initial value or when Δt=40℃, whichever is lower(Ta=25℃)					
* TEST CONDITION					
TEST INSTRUMENT : HP4291B、502BC、CH1062					
TEMPERATURE : 25℃					
HUMIDITY : 60%					
6. ENVIRONMENTEL CHARACTERISTICS					
Operationg Temperature		-40 ~ +100℃			
Storage Temperature Range		-40 ~ +100℃			
MOISTURE RESISTANCE		90~95(%), 40±2(℃) 96HRS Than the filter is no visible damaged not exceed spec.			
INSULATION RESISTANCE	COIL & CORE	DC 100 [V] , 100 [MΩ] MIN, 5 MINUTES			