

### FEATURES

- 0805, 0806 AND 1008 CASE SIZES
- HIGH DC CURRENT AND LOW DC RESISTANCE
- REFLOW SOLDERING APPLICABLE
- PACKAGE FOR AUTOMATIC PICK-PLACE

### SPECIFICATIONS

Specifications	Case Size		
	0805	0806	1008
Inductance Range	0.47μH ~ 4.7μH	0.47μH ~ 4.7μH	0.47μH ~ 4.7μH
Inductance Tolerance	±20% (M), ±30% (Y)		
Operating Temperature Range	-40°C ~ +85°C		
Self Resonant Frequency, DC Resistance, Rated DC Current and Inductance Tolerance	See Standard Values and Specifications Table		

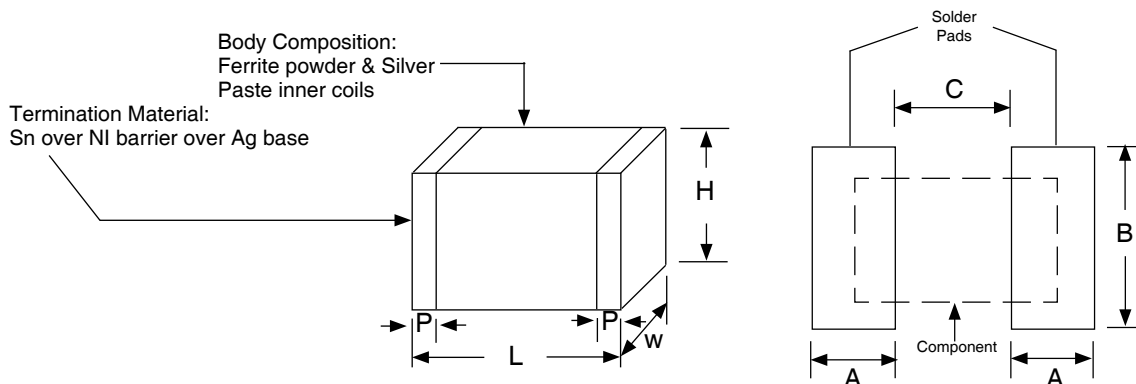
Note: Extended values, tolerances, and enhanced versions are available please contact NIC for more details.

### ENVIRONMENTAL CHARACTERISTICS

Test	Specification	Test Method & Condition
Resistance to Soldering Heat	No Mechanical Damage Inductance: ±20% of initial value (parts should be stabilized at room temperature for 2 hours prior to testing)	+260°C for 5 seconds
Low Frequency Vibration		Cycle 10Hz ~ 55Hz ~ 10Hz (1 minute), 2 hours each axis (X, Y, Z)
Thermal Shock		Cycle -40°C for 30 min. > +85°C 30 min., 100 cycles
Humidity		+60°C, 90% ~ 95%RH, 1,000 hours
Low Temperature Storage		-40°C for 1,000 hours
High Temperature Load Life		+85°C for 1,000 hours

### DIMENSIONS (mm)

Case Size	L	W	H	P	A	B	C
NFP0805	2.0 +0.3/-0.1	1.25 ± 0.2	0.5 ± 0.1	0.5 ± 0.3	0.8 ~ 1.2	0.9 ~ 1.6	0.8 ~ 1.2
			0.9 ± 0.1				
NFP0806	2.0 +0.3/-0.1	1.6 ± 0.2	0.9 ± 0.1	0.5 ± 0.3	0.8 ~ 1.2	1.2 ~ 2.0	0.8 ~ 1.2
NFP1008	2.5 ± 0.2	2.0 +0.3/-0.1	0.9 ± 0.1	0.5 ± 0.3	0.6 ~ 1.0	1.8 ~ 2.2	1.0 ~ 1.4
			1.1 ± 0.1				

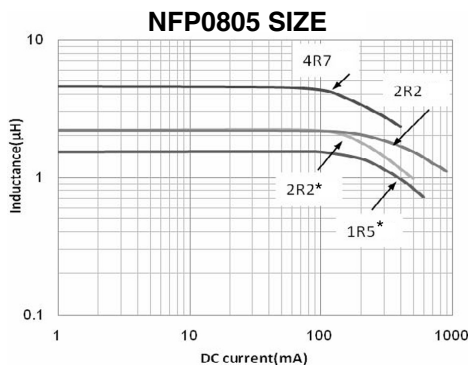


## NFP0805 SERIES

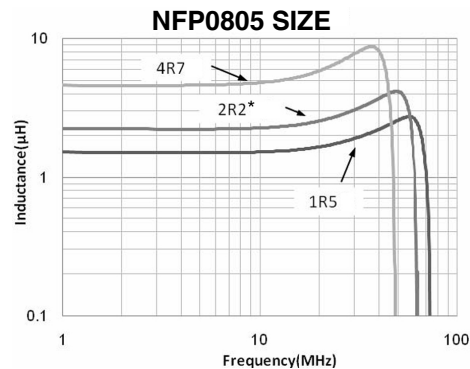
## 0805 CASE SIZE

NIC P/N	'L' Inductance (μH)	Tolerance	"L" Test Frequency	SRF MHz (min.)	DC Resistance (ohms)	Rated DC Current (mA) Max.	Component Thickness
NFP0805_R47TR110F	0.47	±20% (M), ±30% (Y)	1	100	0.12 ± 25%	1100	0.5±0.1 mm
NFP0805_1R0TR80F	1	±20% (M), ±30% (Y)	1	60	0.19 ± 25%	800	
NFP0805_1R5TR70F	1.5	±20% (M), ±30% (Y)	1	50	0.26 ± 25%	700	
NFP0805_2R2TR60F	2.2	±20% (M), ±30% (Y)	1	40	0.34 ± 25%	600	
NFP0805_R47TR120F	0.47	±20% (M), ±30% (Y)	1	100	0.09 ± 25%	1200	
NFP0805_1R0TR100F	1	±20% (M), ±30% (Y)	1	60	0.11 ± 25%	1000	0.9±0.1 mm
NFP0805_1R5TR90F	1.5	±20% (M), ±30% (Y)	1	50	0.16 ± 25%	900	
NFP0805_2R2TR80F	2.2	±20% (M), ±30% (Y)	1	40	0.25 ± 25%	800	
NFP0805_3R3TR90F	3.3	±20% (M), ±30% (Y)	1	30	0.19 ± 25%	900	
NFP0805_4R7TR80F	4.7	±20% (M), ±30% (Y)	1	30	0.25 ± 25%	800	

Note: Extended values, tolerances, and enhanced versions are available please contact NIC for more details.



(\*) Identifies performance of (0.9mm) thickness constructions  
No (\*) Identifies (0.5 mm) thickness constructions



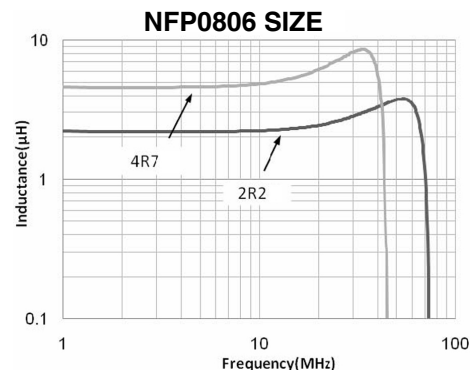
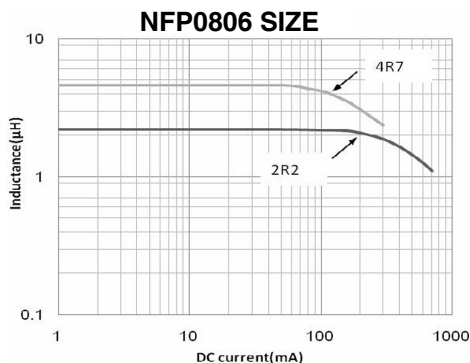
(\*) Identifies performance of **both** thickness constructions  
No (\*) Identifies (0.5 mm) thickness constructions **only**

## NFP0806 SERIES

## 0806 CASE SIZE

NIC P/N	'L' Inductance (μH)	Tolerance	"L" Test Frequency	SRF MHz (min.)	DC Resistance (ohms)	Rated DC Current (mA) Max.	Component Thickness
NFP0806_R47TR160F	0.47	±20% (M), ±30% (Y)	1	100	0.06 ± 25%	1600	0.9±0.1 mm
NFP0806_1R0TR140F	1	±20% (M), ±30% (Y)	1	70	0.09 ± 25%	1400	
NFP0806_1R5TR120F	1.5	±20% (M), ±30% (Y)	1	60	0.11 ± 25%	1200	
NFP0806_2R2TR120F	2.2	±20% (M), ±30% (Y)	1	50	0.11 ± 25%	1200	
NFP0806_3R3TR120F	3.3	±20% (M), ±30% (Y)	1	40	0.12 ± 25%	1200	
NFP0806_4R7TR110F	4.7	±20% (M), ±30% (Y)	1	30	0.14 ± 25%	1100	

Note: Extended values, tolerances, and enhanced versions are available please contact NIC for more details.

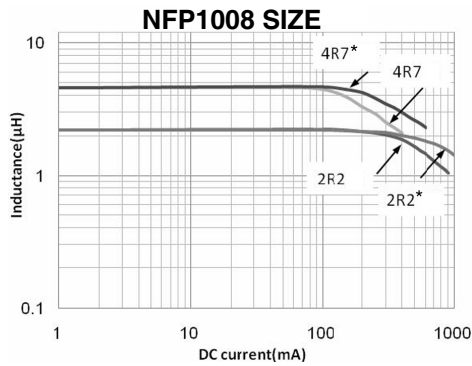


## NFP1008 SERIES

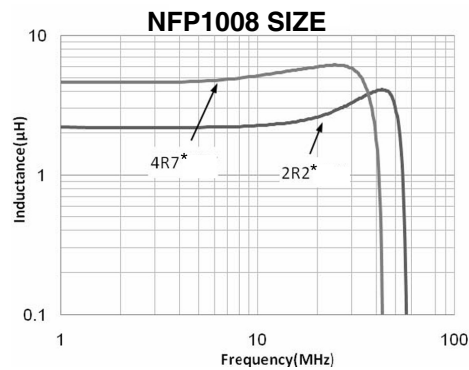
## 1008 CASE SIZE

NIC P/N	'L' Inductance (μH)	Tolerance	"L" Test Frequency	SRF MHz (min.)	DC Resistance (ohms)	Rated DC Current (mA) Max.	Component Thickness
NFP1008_R47TR180F	0.47	±20% (M), ±30% (Y)	1	100	0.04 ± 25%	1800	0.9±0.1 mm
NFP1008_1R0TR160F	1	±20% (M), ±30% (Y)	1	60	0.06 ± 25%	1600	
NFP1008_1R5TR150F	1.5	±20% (M), ±30% (Y)	1	50	0.07 ± 25%	1500	
NFP1008_2R2TR130F	2.2	±20% (M), ±30% (Y)	1	40	0.08 ± 25%	1300	
NFP1008_3R3TR120F	3.3	±20% (M), ±30% (Y)	1	30	0.10 ± 25%	1200	
NFP1008_4R7TR110F	4.7	±20% (M), ±30% (Y)	1	25	0.11 ± 25%	1100	
NFP1008_1R0TR150F	1	±20% (M), ±30% (Y)	1	70	0.09 ± 25%	1500	1.1±0.1 mm
NFP1008_2R2TR100F	2.2	±20% (M), ±30% (Y)	1	40	0.12 ± 25%	1000	
NFP1008_3R3TR100F	3.3	±20% (M), ±30% (Y)	1	30	0.12 ± 25%	1000	
NFP1008_4R7TR90F	4.7	±20% (M), ±30% (Y)	1	25	0.14 ± 25%	900	

Note: Extended values, tolerances, and enhanced versions are available please contact NIC for more details.

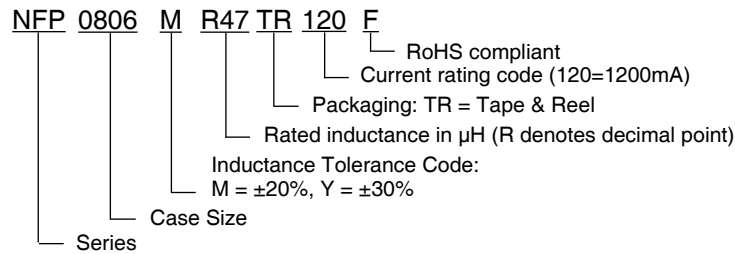


(\*) Identifies performance of (1.1mm) thickness constructions  
No (\*) Identifies (0.9 mm) thickness constructions

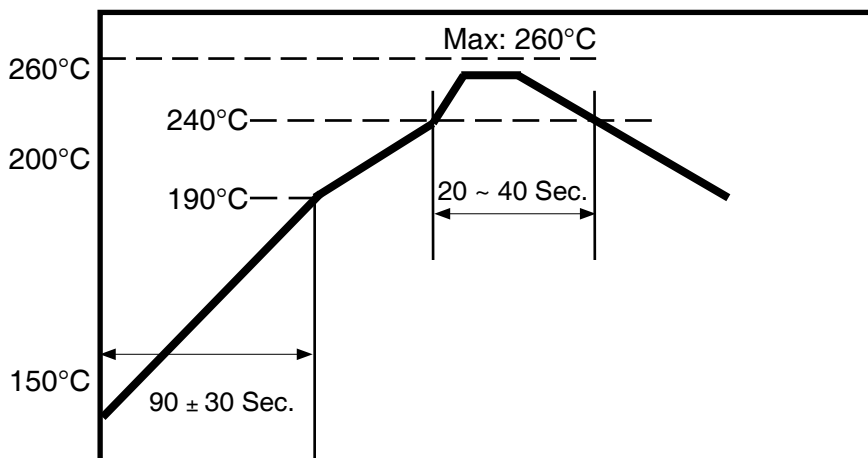


(\*) Identifies performance of both thickness constructions

### PART NUMBER SYSTEM



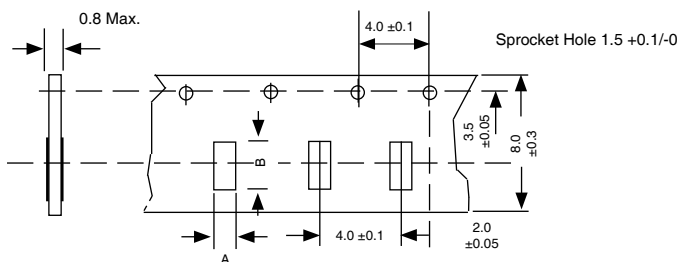
## REFLOW SOLDERING PROFILE:



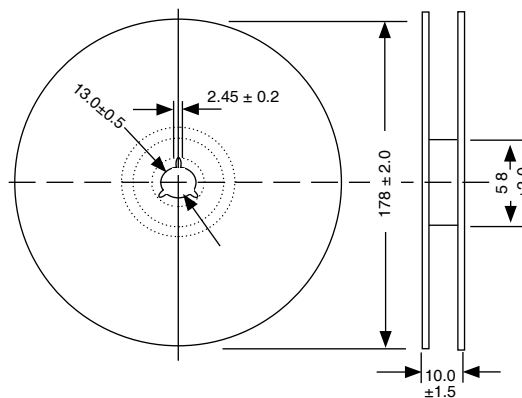
## CARRIER DIMENSIONS & REEL QUANTITY (mm)

TYPE	Part Thickness	A	B	K max.	Carrier Material	Reel Qty
NFP0805	0.5	1.60 ± 0.10	2.30 ± 0.10	-	Paper	5,000
	0.9	1.55 ± 0.10				
NFP0806	0.9	1.90 ± 0.10	2.80 ± 0.10	1.45	Plastic	3,000
NFP1008	1.1	2.30 ± 0.10				

### PAPER CARRIER DIMENSIONS (mm)



### REEL DIMENSIONS (mm):



### EMBOSSED PLASTIC CARRIER DIMENSIONS (mm)

