Surface Mount Common Mode Choke

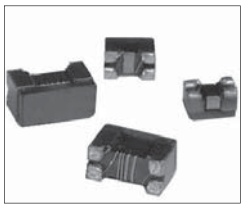
NCC Series

FEATURES

- HIGH COMMON MODE IMPEDANCE AT HIGH FREQUENCY
- LOW PROFILE SURFACE MOUNT PACKAGE
- SHIELDED PROVIDING EXCELLENT NOISE SUPPRESSION
- SUITABLE FOR HIGH SPEED DIGITAL EQUIPMENT (USB/IEEE)
- Pb-FREE CONSTRUCTION
- BOTH FLOW AND REFLOW SOLDERING APPLICABLE

RoHS Compliant
includes all homogeneous materials

*See Part Number System for Details



CHARACTERISTICS

Case Size	0805	1206
Impedence Range	30~ 370 Ohms	30 ~ 2,200 Ohms
Available Tolerance	±25%	
Temperature Range	-40°C ~ +125°C	
Withstanding voltage	125VDC 30 seconds	
Insulation Resistance	10MΩ after application 50V for 30 seconds	
Resistance to Solder Heat	260°C ±5°C for 10 seconds	
Temperature Cycling	±25% of initial value after 10 cycles (-40°C/+20°C/+125°C/+20°C)	

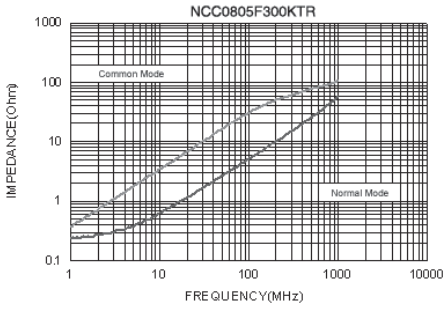
PART NUMBER SYSTEM

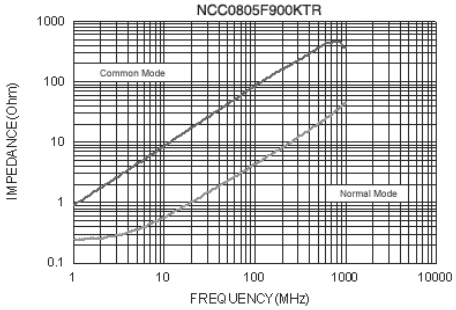
NCC 0805 F 300 K TR F

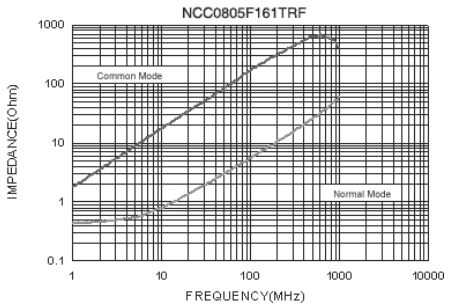
- F: Pb-free/RoHS Compliant
- TR: Tape & Reel
- K: Current Rating
- 300: Impedance value (ohms)
- F: Material (Ferrite)
- 0805: Case Code
- NCC: Series

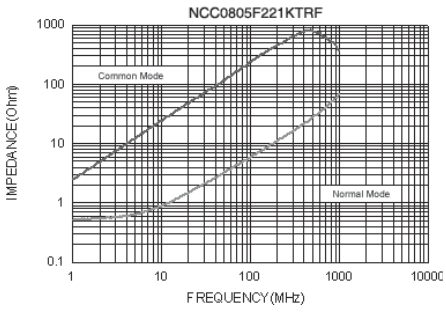
NCC0805 SPECIFICATIONS

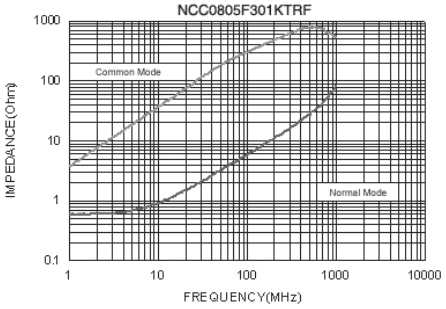
NIC Part Number	Impedance (Ω)	Test Frequency (MHz)	DC Resistance (Ω max.)	DC Current (mA max.)	Voltage Rating (Vdc)	Withstanding Voltage (Vdc)	Insulation Resistance (Ω)
NCC0805F300KTRF	30 ±25%	100	0.2	400	50	125	10Meg
NCC0805F670KTRF	67 ±25%		0.25	400			
NCC0805F900KTRF	90 ±25%		0.3	400			
NCC0805F121KTRF	120 ±25%		0.3	400			
NCC0805F161JTRF	160 ±25%		0.35	350			
NCC0805F181JTRF	180 ±25%		0.35	350			
NCC0805F221HTRF	220 ±25%		0.4	300			
NCC0805F221MTRF	220 ±25%		0.4	600			
NCC0805F261HTRF	260 ±25%		0.4	300			
NCC0805F301HTRF	300 ±25%		0.45	300			
NCC0805F361FTRF	360 ±25%		0.5	100			
NCC0805F371FTRF	370 ±25%		0.5	100			

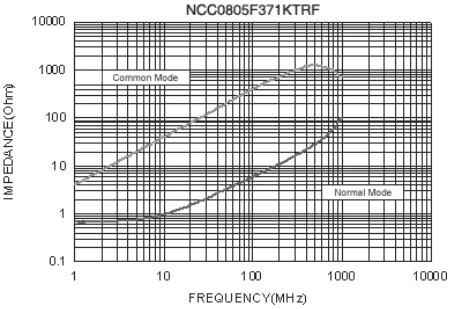






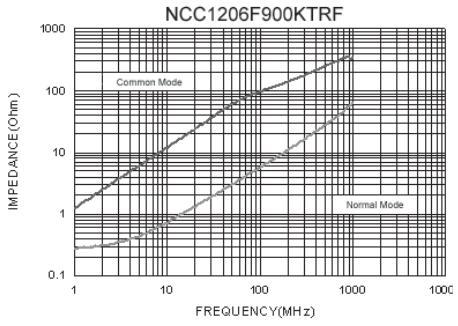


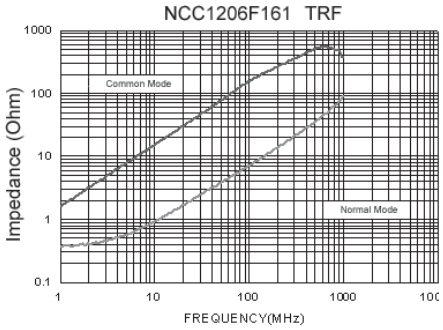


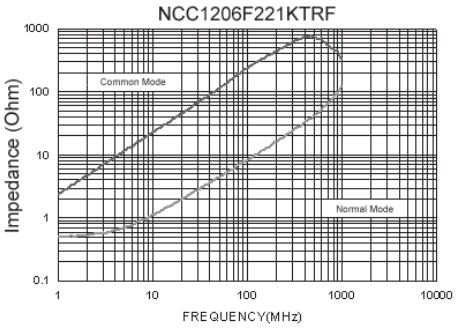


NCC1206 SPECIFICATIONS

NIC Part Number	Impedance (Ω)	Test Frequency (MHz)	DC Resistance (Ω max.)	DC Current (mA max.)	Voltage Rating (Vdc)	Withstanding Voltage (Vdc)	Insulation Resistance (Ω)
NCC1206F300KTRF	30 ±25%	100	0.2	400	50	125	10Meg
NCC1206F670KTRF	67 ±25%		0.3	400			
NCC1206F800KTRF	80 ±25%		0.3	400			
NCC1206F900KTRF	90 ±25%		0.3	400			
NCC1206F121KTRF	120 ±25%		0.3	400			
NCC1206F161JTRF	160 ±25%		0.35	350			
NCC1206F181JTRF	180 ±25%		0.35	350			
NCC1206F221HTRF	220 ±25%		0.45	300			
NCC1206F261HTRF	260 ±25%		0.45	300			
NCC1206F281HTRF	280 ±25%		0.45	300			
NCC1206F301HTRF	300 ±25%		0.5	300			
NCC1206F361HTRF	360 ±25%		0.6	300			
NCC1206F431HTRF	430 ±25%		0.6	300			
NCC1206F471HTRF	470 ±25%		0.7	300			
NCC1206F551HTRF	550 ±25%		0.75	300			
NCC1206F601HTRF	600 ±25%		0.8	300			
NCC1206F222GTRF	2200 ±25%		1.2	200			

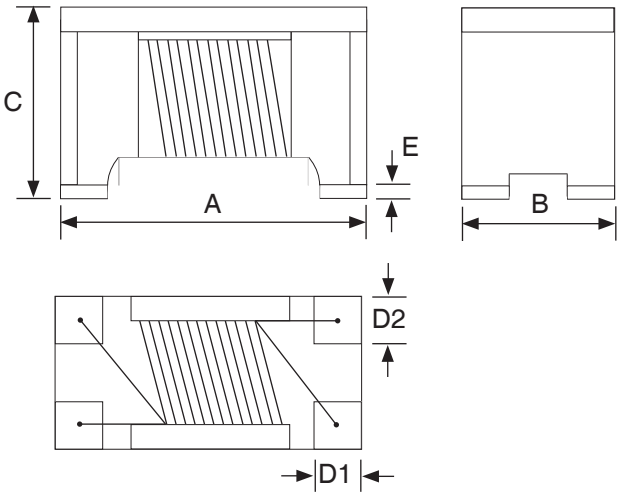




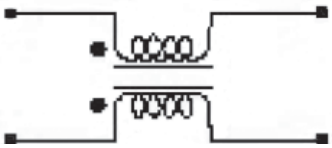


CASE DIMENSIONS (mm)

Type	A ±0.2	B ±0.2	C ±0.2	D1±0.1	D2 ±0.1	E ±0.1
NCC0805	2.0	1.2	1.2	0.55	0.46	0.15
NCC1206	3.2	1.6	2.0	0.50	0.50	0.15

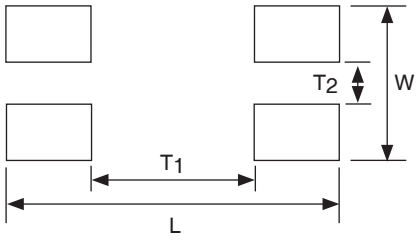


CIRCUIT SCHEMATIC

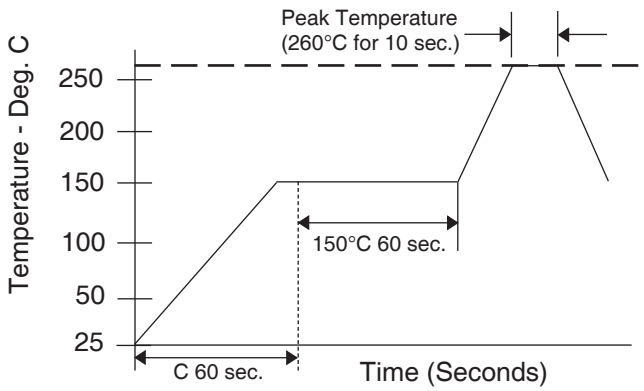


LAND PATTERN DIMENSIONS (mm)

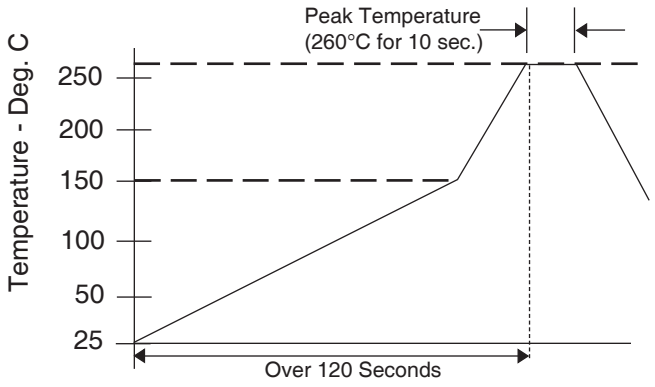
Case Size	L	W	T_1	T_2
0805	2.60	1.25	1.10	0.45
1206	3.70	1.60	1.90	0.40



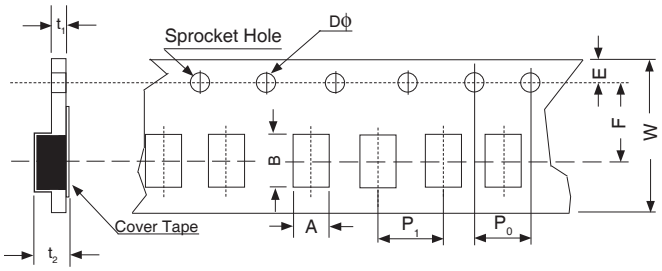
RECOMMENDED REFLOW SOLDERING PROFILE

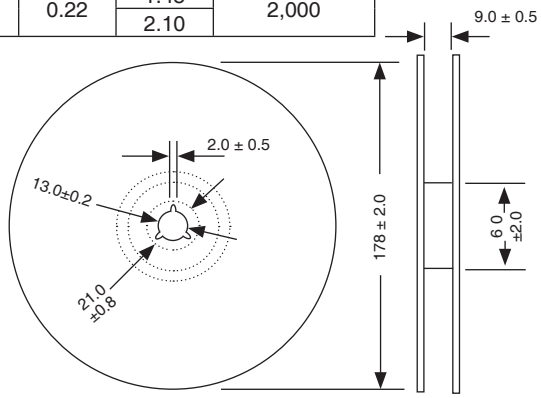


RECOMMENDED FLOW SOLDERING PROFILE



Series	A ± 0.1	B ± 0.1	E ± 0.1	F ± 0.05	P_0 ± 0.1	P_1 ± 0.1	D□ ± 0.1	W ± 0.1	t_1 ± 0.05	t_2 ± 0.1	Reel Quantity
NCC0805	1.50	2.35	1.75	3.5	4.0	4.0	1.5	8.0	0.22	1.45	2,000
NCC1206	1.88	3.50								2.10	





REEL QUANTITY: 2,000 per reel
(0805 & 1206 case size)