

FEATURES

- HIGH ANTI-PULSE PERFORMANCE
- EIA SIZE 0603
- CURRENT RATINGS UP TO 5.0 AMPS
- SAFETY STANDARD APPROVAL (UL and c-UL File Number E302168)
- Pb-FREE COMPATIBLE WITH FLOW AND REFLOW SOLDERING

**RoHS
Compliant**

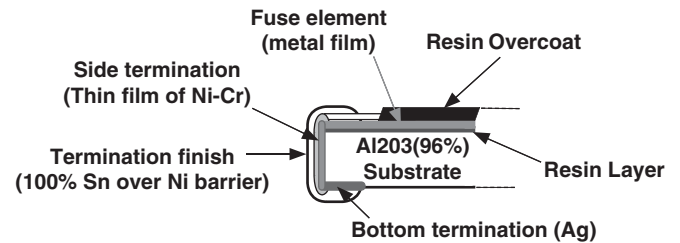
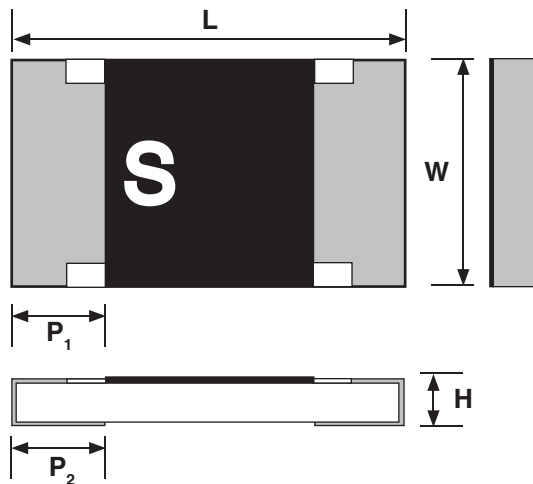
includes all homogeneous materials

*See Part Number System for Details



SPECIFICATIONS

Type	Case Size	Rated Current (Amps)	Rated Voltage (Vdc)	Temperature Range	Case Dimensions				
					L	W	H	P ₁	P ₂
NFSC06	0603	0.5 ~ 5.0	32	-55°C ~ +125°C	1.6 ± 0.01	0.8 +0.15/-0.05	0.45 ± 0.10	0.3 ± 0.15	0.3 ± 0.10



PART NUMBERING SYSTEM

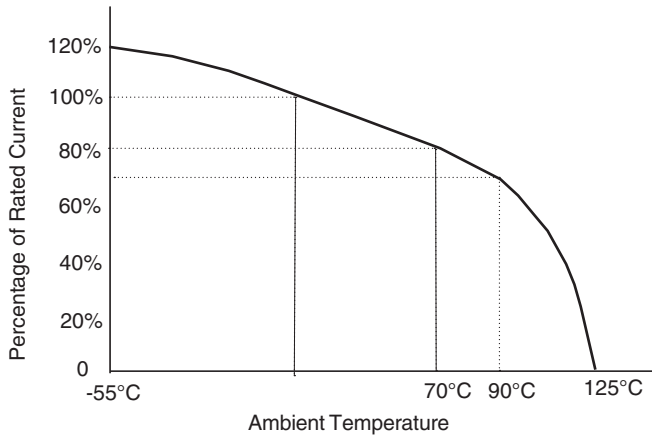
NFSC 06 202 AB TP F

- NFSC**: Series
- 06**: Case Size Code: See specifications table
- 202**: Current Rating Code: See ratings table
- AB**: Clearing Time Code:
AB = Within 5 sec. under 200% of rated current
- TP**: Tape & Reel: TP = Paper (4mm pitch)
- F**: RoHS Compliant

AVAILABLE VALUES AND RATINGS

Part Number	Current Rating @ +70°C	Marking Symbol	Internal (Cold) Resistance (mΩ) max.	Melting I ² T (t=1ms) (A ² xs) typical	Voltage Drop (R/C x 100) mV typical	Rated Voltage (DC)	Breaking Capacity (Amps)	Time/Current Characteristics
NFSC06 501ABTPF	0.5	F	400	0.00529	182	32	35	x100% / 4 hrs. x200% / 5 sec. x300% / 0.2 sec.
NFSC06 631ABTPF	0.63	I	300	0.01156	153			
NFSC06 751ABTPF	0.75	A	210	0.0189225	150			
NFSC06 801ABTPF	0.8	K	180	0.02116	138			
NFSC06 102ABTPF	1.0	L	115	0.03025	116			
NFSC06 132ABTPF	1.25	M	90	0.06084	114			
NFSC06 162ABTPF	1.6	N	60	0.11025	96			
NFSC06 202ABTPF	2.0	S	50	0.169	92			
NFSC06 252ABTPF	2.5	T	37	0.256	84			
NFSC06 302ABTPF	3.0	R	28	0.35721	75			
NFSC06 322ABTPF	3.15	U	26	0.38025	76			
NFSC06 402ABTPF	4.0	X	18	0.53824	70			
NFSC06 502ABTPF	5.0	Y	14	1.089	68			

Current vs. Temperature Derating Guide



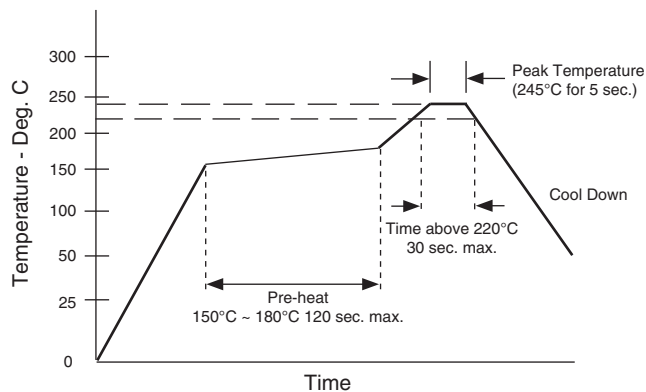
Nominal Derating: $\leq 75\%$ of Rated Current

Temperature Derating: Refer to graph

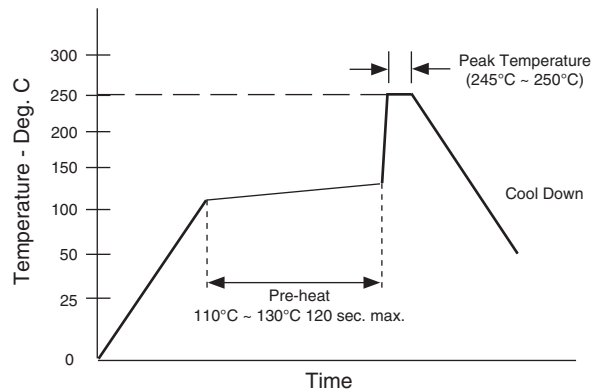
Example: NFSC0603102AB (1A rated current)
If used at +70°C the derated current would be ...

1A x 0.75 (normal derating) x 0.80 (temperature derating) = 0.6A

RECOMMENDED REFLOW PROFILE

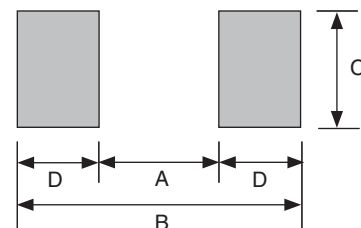


RECOMMENDED FLOW PROFILE



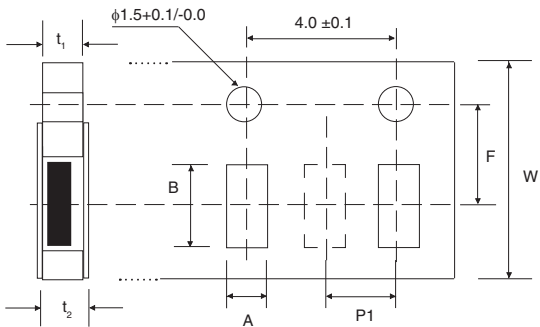
Recommended Land Pattern Dimensions (mm)

Case Size	Reflow Soldering				Flow Soldering			
	A	B	C	D	A	B	C	D
0603	1.0	2.0	0.8	0.5	1.0	2.6	0.8	0.8



CARRIER TAPE DIMENSIONS (mm)

Type	A	B	W	F	E	P ₁	P ₀	φD	T ₁	T ₂	Qty/Reel
NFSC06	1.15 ±0.15	1.90 ±0.20	8.00 ±0.20	3.50 ±0.05	1.75 ±0.10	4.00 ±0.05	4.00 ±0.05	1.55 ±0.05	0.7 max.	0.8 max.	5,000



REEL DIMENSIONS (mm) AND QUANTITY

Type	A +0/-3	B +1/-0	C ±0.20	W ±0.3	Qty
NFSC06	180	60	13	9.0	5,000

