



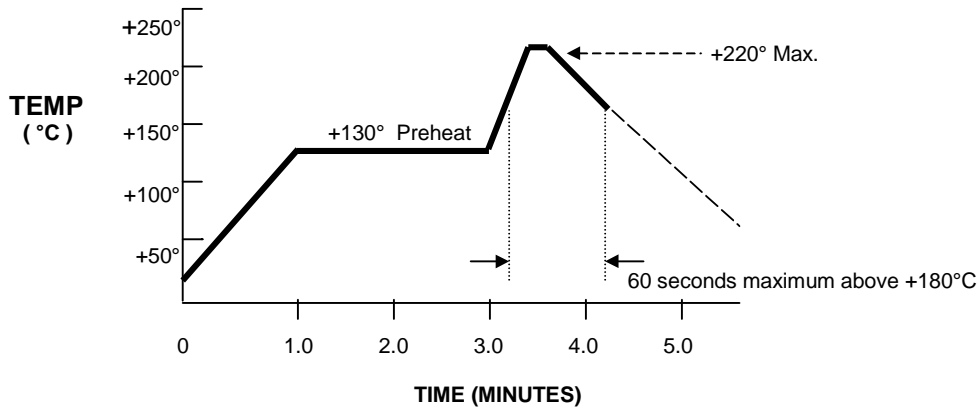
NIC COMPONENTS CORP.

70 Maxess Road • Melville, New York 11747  
(631) 936-7500 • Fax (631) 396-7575

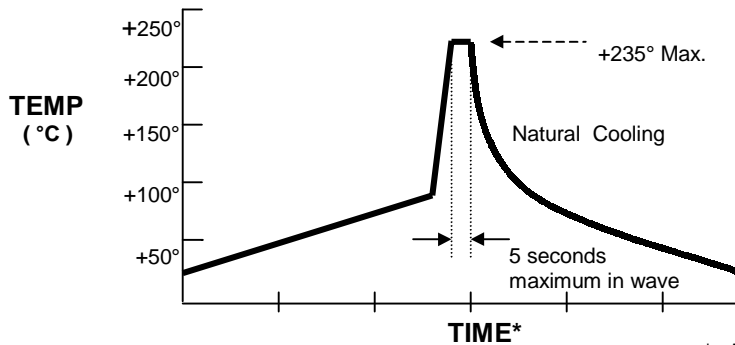
10/25/99

## RECOMMENDED SOLDERING PROFILES NVS series, SMT Multilayer Transient Voltage Suppressors

### Reflow Soldering



### Flow-Wave Soldering



\* - Duration of wave soldering cycle is not component dependent. This product can withstand direct immersion in solder without pre-heat.

Please Note: Solder fillet size and appearance will be different than nickel barrier components, due to platinum enhanced palladium-silver termination used on NVS series.



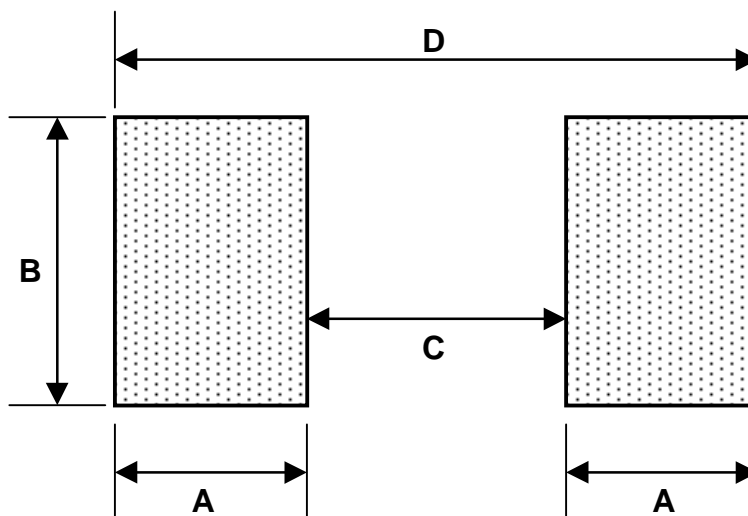
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## RECOMMENDED LAND PATTERNS NVS series, SMT Multilayer Transient Voltage Suppressors



DIMENSIONS: (mm)

DIMENSION	CASE SIZE			
	0603	0805	1206	1210
A	0.76	1.02	1.02	1.02
B	0.89	1.27	1.65	2.54
C	0.76	1.02	2.03	2.03
D	2.54	3.06	4.07	4.07



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## **SOLDER JOINT STRENGTH TESTING**

### ***NVS series, SMT Multilayer Transient Voltage Suppressors***

#### **ADHESION STRENGTH TEST**

<b>CASE SIZE</b>	<b>LATERAL PUSH TEST RESULTS</b>
0805	9.4 ~ 12.1 lbs.
1206	13.5 ~ 18.5 lbs.
1210	18.3 ~ 20.3 lbs.

#### **MULTIPLE\* SOLDERING (IR) EFFECT TEST AND COMPARISON**

	<b>NVS SERIES**</b>	<b>NI BARRIER</b>
<b>CASE SIZE</b>	<b>AVG. LATERAL PUSH TEST RESULTS</b>	<b>AVG. LATERAL PUSH TEST RESULTS</b>
0805, 1206, 1210	11.5 ~ 15.0 lbs.	14.0 ~ 16.7 lbs.

\* - AVERAGED RESULTS OF UP TO 4 PASSES THROUGH IR REFLOW SOLDERING.

\*\* - NVS SERIES HAS PLATINUM ENHANCED PALLADIUM-SILVER TERMINATION.

#### **NOTES:**

1. ALL PARTS EASILY MEET 5LB MINIMUM REQUIREMENTS (MILITARY AND EIA-J)
2. SOLDER FILLET SIZE (30% ~ 50% OF HEIGHT) AND APPEARANCE (DULL & GRAINY TYPICALLY) WILL BE DIFFERENT THAN NICKEL BARRIER COMPONENTS.