



NIC COMPONENTS CORP.
70 Maxess Road • Melville, New York 11747
(631) 396-7500 • Fax (631) 396-7575

PRODUCT SPECIFICATION

NIC SERIES: **NRC10T, NRC12T**

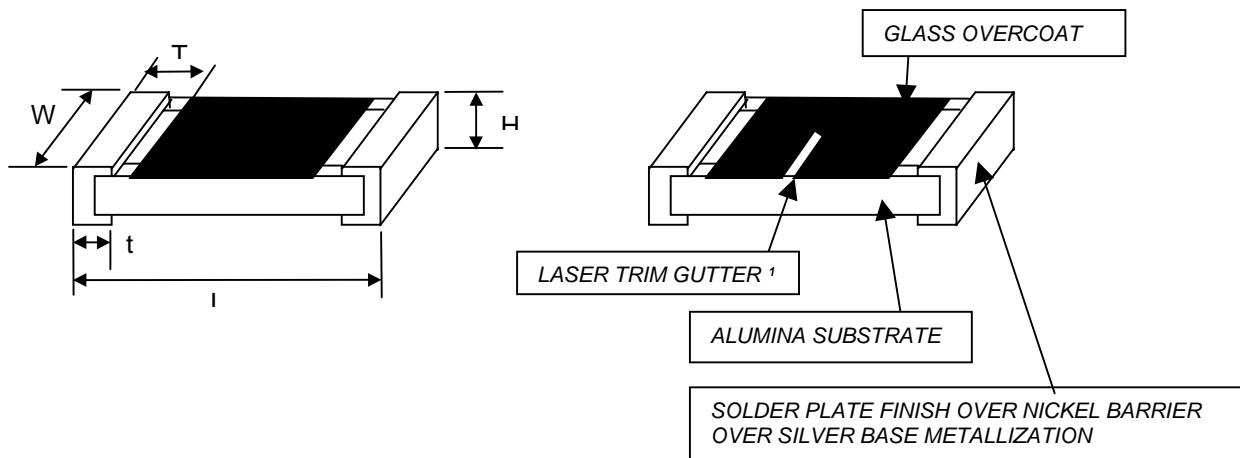
DESC: 0805 AND 1206 SIZE TRIMMABLE THICK FILM CHIP RESISTORS.

SPECIFICATIONS:

TYPE	SIZE	RATING	MAX. W.V.	T.C.	TOL.	R. RANGE
NRC10T	0805	1/8W	150V	$\pm 250\text{PPM}/^\circ\text{C}$	$\pm 20\%$	$10\Omega \sim 1\text{MEG}\Omega$
NRC12T	1206	1/4W	200V			

DIMENSIONS:

TYPE	SIZE	L	W	H	T	t
NRC10T	0805	2.0 ± 0.2	1.25 ± 0.1	0.5 ± 0.1	0.4 ± 0.2	$0.2-0.1/+0.2$
NRC12T	1206	3.1 ± 0.2	1.55 ± 0.15	0.55 ± 0.1	0.5 ± 0.2	0.5 ± 0.25



PART NUMBERING SYSTEM:

NRC 10 T 103 TR

TAPE AND REEL PACKAGING
NOMINAL (UNTRIMMED) RESISTANCE VALUE CODE (EIA 3-DIGIT CODE)
T = TRIMMING STYLE
SIZE CODE
SERIES

NOTES:

1. TRIMMING GUTTER IS CREATED DURING TRIM OPERATION PERFORMED BY USER.
2. UNTRIMMED PARTS AS SUPPLIED BY NIC WILL BE AT MINIMUM RESISTANCE VALUE ($\pm 20\%$).



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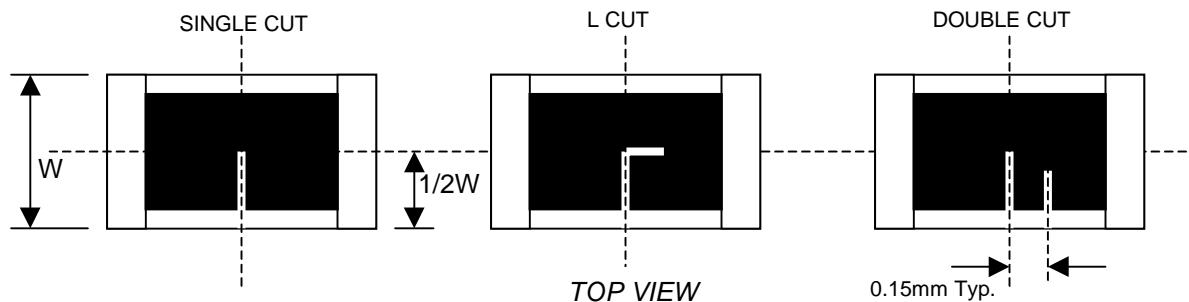
DESC: 0805 AND 1206 SIZE TRIMMABLE THICK FILM CHIP RESISTORS.

NOTES (CONTINUED):

3. TRIMMING OPERATION (PERFORMED BY USER) REDUCES THE RESISTIVE ELEMENT SURFACE AREA RESULTING TO INCREASE THE RESISTANCE VALUE OF THE COMPONENT.
4. TYPICALLY A PRE-TRIMMED RESISTANCE VALUE ~20% BELOW THE TARGET VALUE IS SELECTED (EXAMPLE: 8000 Ω NOMINAL VALUE IS SELECTED TO LASER TRIM TO 10,000 Ω TARGET VALUE)

TRIMMING METHODS AND CONDITIONS:

1. EITHER SINGLE CUT, L-CUT OR DOUBLE CUT CAN BE ACCOMPLISHED BY LASER or ABRASION TRIMMER.



2. THE STRAIGHT PORTION OF THE CUT SHALL NOT GO MORE THAN $\frac{1}{2}$ OF THE OVERALL WIDTH OF THE RESISTIVE ELEMENT WIDTH.
3. THE CUT SHALL OCCUR IN THE CENTER OF THE RESISTIVE ELEMENT AS SHOWN ABOVE.
4. A TRIM CUT WIDTH OF 50MICRONS IS RECOMMENDED.
5. CUTTING DEPTH SHOULD REACH THROUGH GLASS OVERCOAT AND RESISTIVE ELEMENT. NO RESISTIVE ELEMENT MATERIAL SHALL REMAIN IN THE TRIM GUTTER.
6. IN THE CASE OF DOUBLE CUT, THE DISTANCE BETWEEN CUTS SHALL BE TYPICALLY 0.15mm. THE SECOND CUT SHOULD BE AWAY FROM THE TERMINATION BY AT LEAST 0.1MM.
5. THE MAXIMUM TRIMMED RESISTANCE VALUE SHALL BE WITHIN 1.7 TIMES THE PRE-TRIMMED RESISTANCE VALUE (EXAMPLE: 8000 Ω PRE-TRIMMED RESISTANCE VALUE SHALL NOT BE TRIMMED HIGHER THAN 13,600 Ω).