



NIC COMPONENTS CORP.

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

PRODUCT SPECIFICATION

NIC SERIES: NRC10T, NRC12T

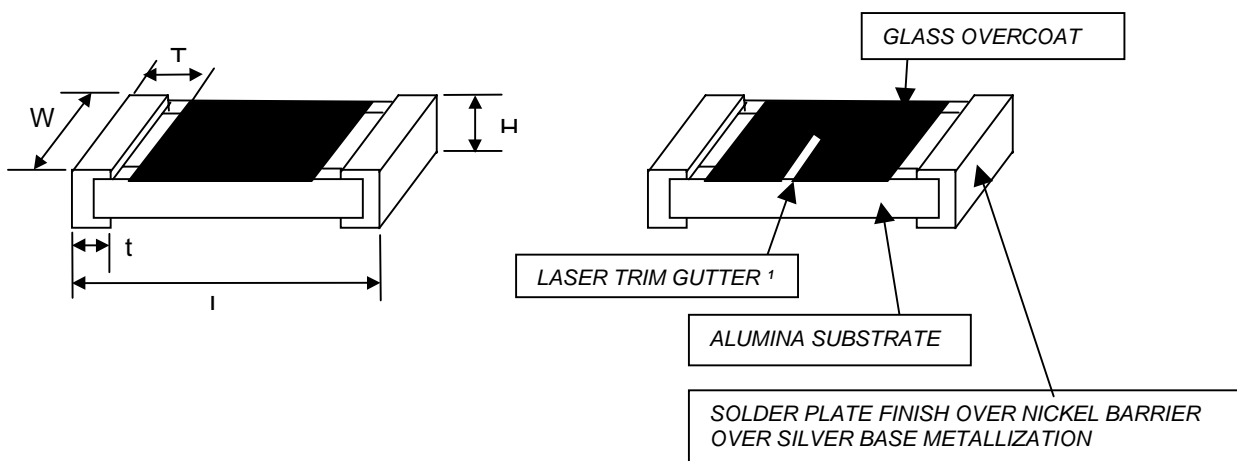
DESC: 0805 AND 1206 SIZE TRIMMABLE THICK FILM CHIP RESISTORS.

SPECIFICATIONS:

TYPE	SIZE	RATING	MAX. W.V.	T.C.	TOL.	R. RANGE
NRC10T	0805	1/8W	150V	±250PPM/°C	±20%	10Ω ~ 1MEGΩ
NRC12T	1206	1/4W	200V			

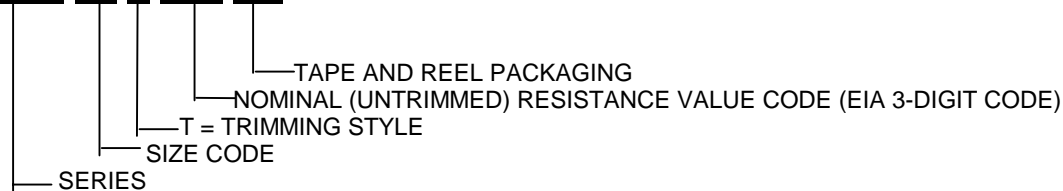
DIMENSIONS:

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



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 (±20%).



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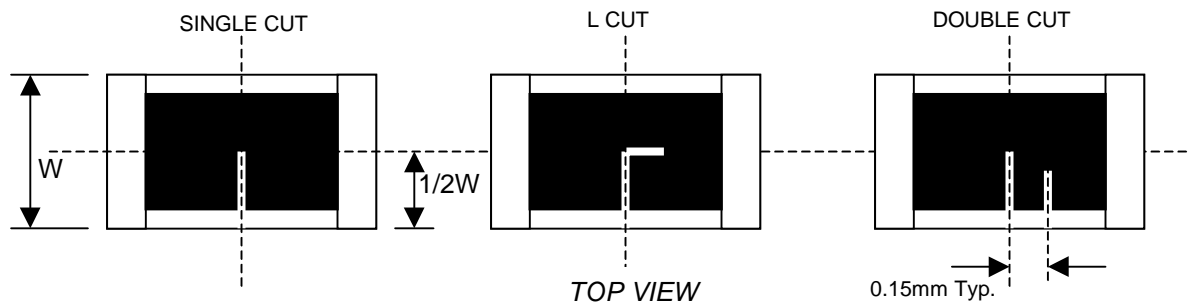
DESC: 0805 AND 1206 SIZE TRIMMABLE THICK FILM CHIP RESISTORS.

NOTES (*CONTINUED*):

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

TRIMMING METHODS AND CONDITIONS:

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



- THE STRAIGHT PORTION OF THE CUT SHALL NOT GO MORE THAN $\frac{1}{2}$ OF THE OVERALL WIDTH OF THE RESISTIVE ELEMENT WIDTH.
- THE CUT SHALL OCCUR IN THE CENTER OF THE RESISTIVE ELEMENT AS SHOWN ABOVE.
- A TRIM CUT WIDTH OF 50MICRONS IS RECOMMENDED.
- CUTTING DEPTH SHOULD REACH THROUGH GLASS OVERCOAT AND RESISTIVE ELEMENT. NO RESISTIVE ELEMENT MATERIAL SHALL REMAIN IN THE TRIM GUTTER.
- 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.
- THE MAXIMUM TRIMMED RESISTANCE VALUE SHALL BE WITHIN 1.7 TIMES THE PRE-TRIMMED RESISTANCE VALUE (*EXAMPLE: 8000Ω PRE-TRIMMED RESISTANCE VALUE SHALL NOT BE TRIMMED HIGHER THAN 13,600Ω*).