

459.951 / + 459.939

ITW Electronic Packaging

143

CONTROLS FOR ANTISTATIC TUBE

The standard used by ITW for testing antistatic tubes is the American National Standard ANSI/EIA-541-1988. Packaging material standards for ESD sensitive items.

CONDITION CONTROLS

The machine used is an ETS 405 D Static Decay Meter
Humidity control chamber

- The tubes are conditioned for 48 hours in a control chamber at 12% RH, which is more stringent than EIA-541 requirements of 15% RH.
 - A static decay test on the tube is carried out by putting a surface charge of 5000 volts on the tube which should dissipate in less than 2s. ITW product averages 0.5 s. decay time.
- The same test is made 3 times on the positive side and negative. The results are within 0.02 seconds to pass the test.
- Decay results of each daily production are recorded and are available on request.

RESISTIVITY CONTROL

The machine is an ETS 806
Surface resistivity meter

- The technical specification for anti-static tubes is $>1*10e6$ and $<1*10e12$
- ITW average products $1*10e9$

ANTISTATIC SOLUTION CONTROL

- The antistatic solution is tested once a day for conductivity and alcohol content.

PRODUCTION CONTROL

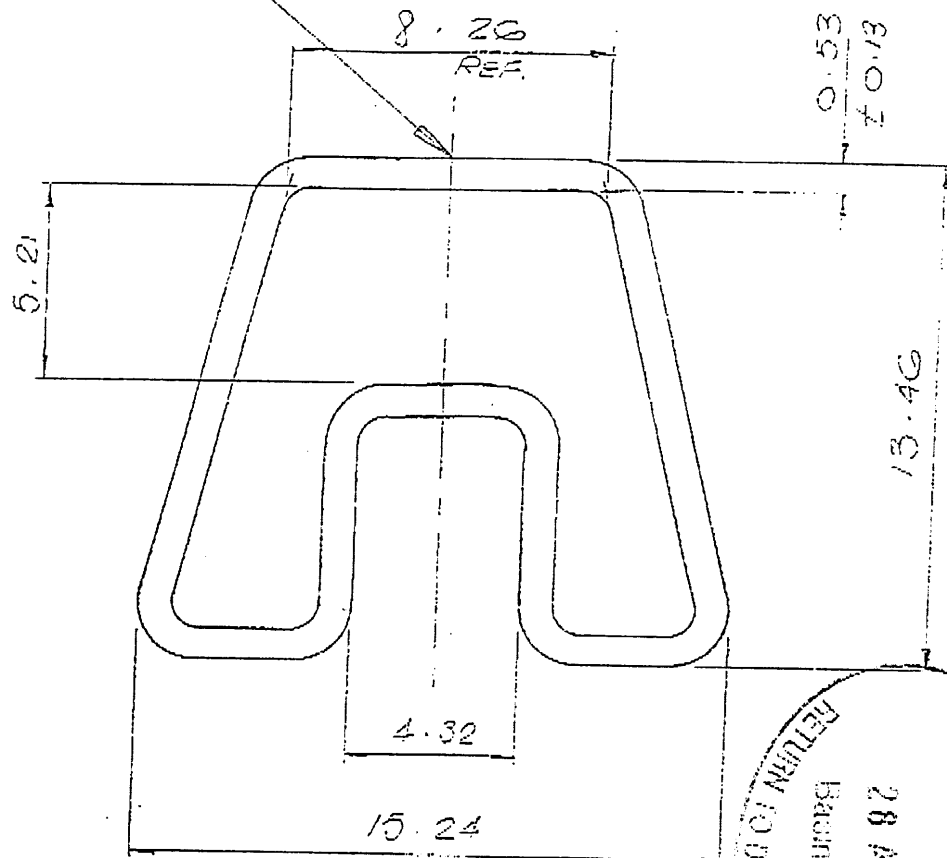
- Hourly inspection
- Samples of each batch are kept on the shelf for 6 months.

2 of 3

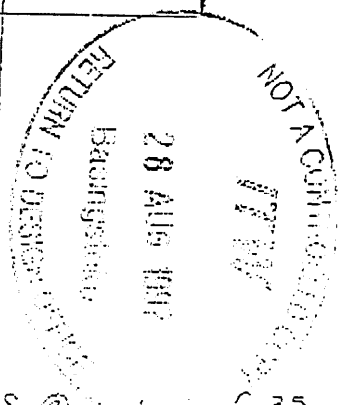
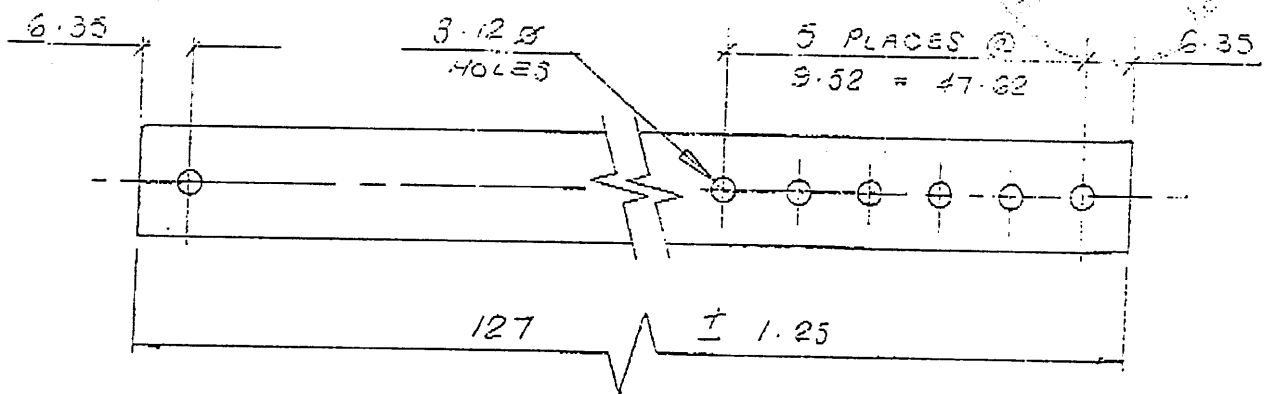
CUSTOMER

MACRO

PRINT ANTISTATIC IN BLUE



IF THIS STAMP IS
NOT IN COLOUR
THIS IS AN
INDICATION
OF THE
STAMPING
PROCESS

ALL UNSPECIFIED TOLERANCES ANGLES $\pm 1^\circ$ 0.0 ± 0.50 0.00 ± 0.25 0.000 ± 0.10

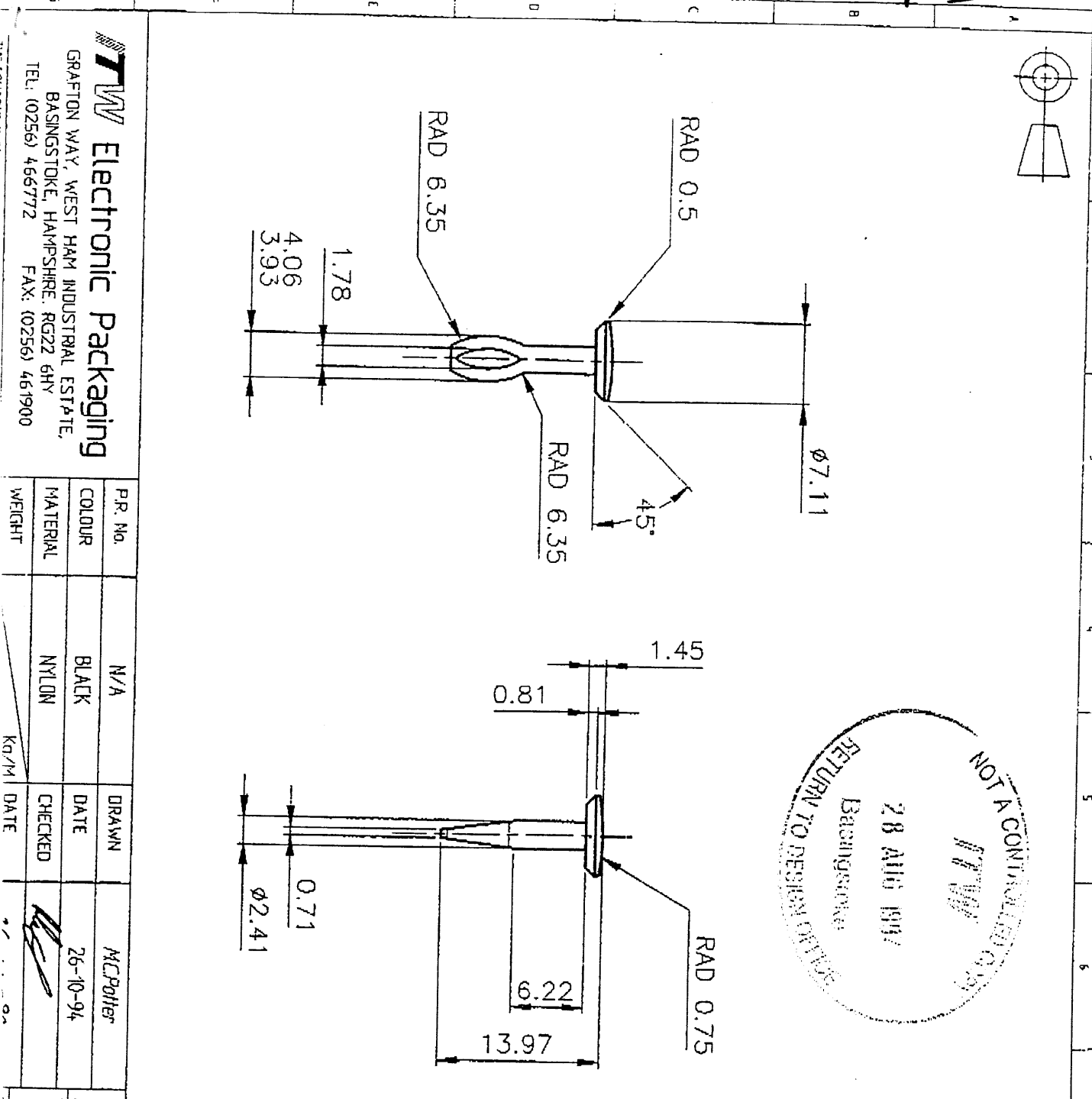
REVISIONS

Issue No. / Colour

Date 21.9.89

EXTRUDED PRODUCTS
A DIVISION OF ITW LIMITED
WEST HAM INDUSTRIAL ESTATE/GRAFTON WAY
BASINGSTOKE/HANTS/RO27 8HY
TEL (0253) 496772 FAX 496777
TELEFAX (0253) 464777

P.R. No.	Des.	Drn.	Date	Chk.	Area	Wt.	Matl.	NAME
8804	Tx	Vo	21.9.89		Sq. mms.	Kg./M	CL. Pvc.	300 DIP
5 : 1 SCALE 1 : 1	ALL DIMS IN mms.		TOOL REF.		PART No.		4 28 40805 23	



NOT A CONTROLLED COPY
28 AUG 1997
Basingstoke
RETURN TO DESIGN OFFICE

CUSTOMER DETAILS			
CUSTOMER			
CUSTOMER PART No.			
CUSTOMER APPROVAL			
APPROVAL DATE			
REVISIONS			
ISSUE	DATE	MODIFICATION	MOD. No.
1	26-10-94	DRAWING RAISED	ISSUE

ALL UNSPECIFIED TOLERANCES:
ALL DIMENSIONS IN mm

0.00	±0.50
0.00	±0.25
0.00	±0.10
ANGLES	±1°

TITLE : THUMB TAK

IF THIS STAMP IS NOT RED IN COLOUR THEN THIS IS AN UNCONTROLLED COPY