

DRAWING NO. **CP-NPN-76-01/02/03/05 (CHIP)**
19906-01/02/03/05 (TO220)

REVISION	DESCRIPT	DATE	APPD
C		7/23/97'	PI
D	See Note Rev:D	12/2/04'	pl

1. PN# CP-NPN-76-XX : NPN TRANSISTOR CHIP ON WAFER TRAY
 - 1.1 CHIP SIZE: 76x76 MIL SQ DIE.
 - 1.2 METALIZATION: FRONT SIDE: ALUMINUM
BACK SIDE: NICKEL / CHROME / SILVER
 - 1.3 TRANSISTOR CHIP SORTED AND PROBED AS FOLLOWING:
Cbe<200pf @ Freq=300Khz, 0.1Vac, Hfe @ Vce:2V/Ib:200uA
(A). P/N# CP-NPN-76-01: Hfe>50, Vceo>120V, Vbe>10V
(B). P/N# CP-NPN-76-02: Hfe>40, Vceo>120V, Vbe>10V (Rev:D)
(C). P/N# CP-NPN-76-03: 40>Hfe>30, Vceo>120V, Vbe>10V
(D). P/N# CP-NPN-76-05: Hfe>50, Vceo>110V, Vbe>10V
5 EA R&R (READ AND RECORD) OF FINISHED ASSEMBLY PER LOT FOR QC VERIFICATION.
 - 1.4 PACKAGE: MUST BE FULL SEALED W/O OXIDATION PACKAGE
2. PN# 19906-01/02/03/05 : TO-220 IN TUBE PACKING,
TO-220'S CHIP HAS TO BE USED AS SPECIFIED:
 - (1). PN#19906-01 - TO220 ASSEMBLY ORDER. (USE CHIP PN# CP-NPN-76-01)
MARKING WITH **HC LOGO + 01**
 - (2). PN#19906-02 - TO220 ASSEMBLY ORDER. (USE CHIP PN# CP-NPN-76-02)
MARKING WITH **HC LOGO + 02**
 - (3). PN#19906-03 - TO220 ASSEMBLY ORDER. (USE CHIP PN# CP-NPN-76-03)
MARKING WITH **HC LOGO + 03**
 - (4). PN#19906-05 - TO220 ASSEMBLY ORDER. (USE CHIP PN# CP-NPN-76-05)
MARKING WITH **HC LOGO + 05**
- 2.1 TO220 FINISHED PRODUCTS 100% MEET ABOVE SPECIFICATION. - NO ELECTRICAL PARAMETER SHIFT AFTER ASSEMBLY.
3. ELECTRICAL PARAMETER MUST BE CONSISTANT AS BEFORE - ANY PROCESS CHANGE HAS TO SUMBIT THE DETAILS FOR QUALIFICATION.

ELECTRICAL SPECIFICATION		HO CHIEN ELECTRONIC GROUP INC.	
SEE	NOTE		
PACKAGING	SEE	NOTE	CP-NPN-76-01/02/03/05 (CHIP) 19906-01/02/03/05 (TO220)
		CHK	
		APPD	
		APPD	