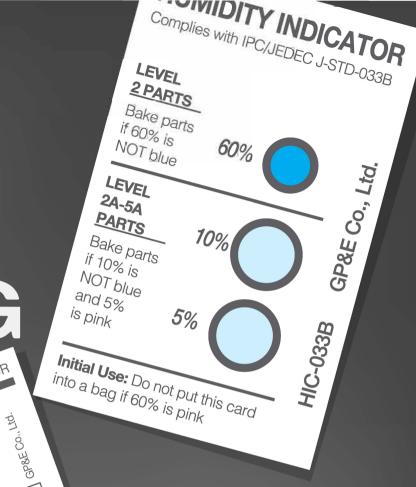


# HUMIDITY INDICATING CARDS HUMDITY INDICATOR HUMDITY INDICATOR



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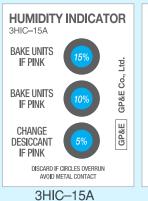
# R-HIC HUMIDITY INDICATOR CARDS



Humidity indicator cards allow fast visual inspection of the relative humidity within sealed packaging and containers. As the humidity increases the chemically impregnated spots change from blue color (DRY) through a lavender, to a pink color (HUMID). This cards meet MIL-I-8835, military specification.

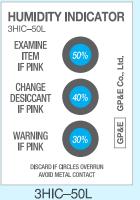
## \* 3-spot HICs

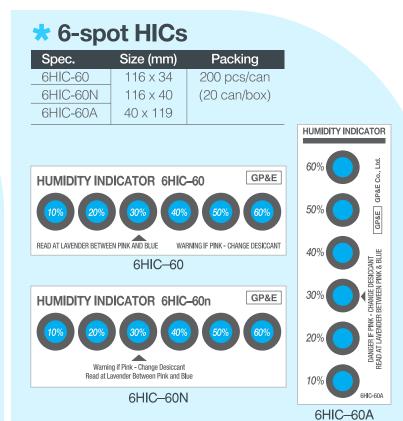
Spec.	Size (mm)	Packing		
3HIC-15A				
3HIC-30A	50 x 75			
3HIC-40L	30 x 73	125 pcs/can		
3HIC-50L		(40 can/box)		
3HIC-40D	50 y 24			
3HIC-50D	59 x 34			







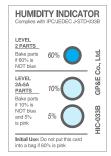








3HIC-50D



HIC-033B

### JEDEC/IPC TO RELEASE REVISION REQUIRING USE OF NEW, QUALITY TESTED HIC IN THE DRY PACKING OF SEMICONDUCTORS

In October 2005, the Joint Electronic Device Engineering Council (JEDEC) and IPC released a new revision of J-STD-033B, the standard governing the use and testing of HICs in the dry packaging of semiconductors.

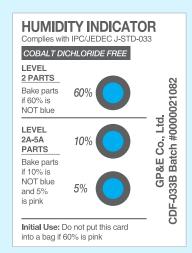
Whereas previous cards used a 5, 10, and 15 percent relative humidity spot system to indicate humidity exposure levels for moisture sensitive components, the new cards will now feature spots indicating 5, 10, and 60 percent,



# CDF-HIC COBALT DICHLORIDE FREE **HUMIDITY INDICATOR CARDS**



CDF-HIC is Cobalt dichloride free humidity indicator cards manufactured by GP&E.



Model No. CDF-033B Size: 50 x 75mm

Indicating: 5, 10, 60 % RH

### What is the CDF-HIC?

GP&E has developed Cobalt-dichloride-free (CDF) humidity indicator cards (HICs). CDF-HICs have serveral advantages;

### 1. Eco-friendly

- No contains Cobalt dichloride, EU REACH SVHC
- No contains 6 RoHS materials: Cd, Hg, Pb, Cr6+, PBBs, PBDEs

### 2. Inexpensive

### 3. Color change

- From BLUE (dry) to PINK (wet)

### 4. Accuaray

-Meets JEDEC standards: IPC/JEDEC J-STD-033B.1

IPC/JEDEC J-STD-033B.1 - Includes Amendment 1 (January 2007)

### **Table 3-2 Typical HIC Spot Compliance**

		Indication at 2% RH Environment	Indication at 5% RH Environment	Indication at 10% RH Environment	Indication at 55% RH Environment	Indication at 60% RH Environment	Indication at 65% RH Environment
	5% Spot	Blue (dry)	Lavender (spot value) change ≥ 7% hue	Pink (wet)	Pink (wet)	Pink (wet)	Pink (wet)
	10% Spot	Blue (dry)	Blue (dry)	Lavender (spot value) change ≥ 10% hue	Pink (wet)	Pink (wet)	Pink (wet)
	60% Spot	Blue (dry)	Blue (dry)	Blue (dry)	Blue (dry)	Lavender (spot value) change≥10% hue	Pink (wet)

Note: Other color schemes may be used.

[ Reference of typical HIC spot compliance ] (IPC/JEDEC J-STD-033B.1)



RoHS Report



JEDEC Report by Colorimeter Test

# CF-HIC HUMISAFE Humidity Indicator Cards (HICs)

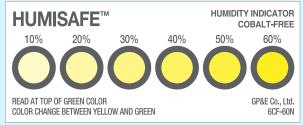




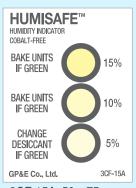
# **RoHS**

GP&E has developed HUMISAFE™ metal (6-RoHS, cobalt, copper, etc.) free HIC for the use in the European Member States. Huropean Member States. HUMISAFE™ is a non-toxic, non-hazardous, and environmentally friendly HIC. Moisture sensitive spots respond to various lavels of humidity with a visible color change from YELLOW (DRY) to GREEN (WET).

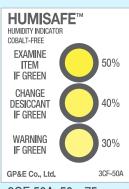
## **☑ PRODUCTS**



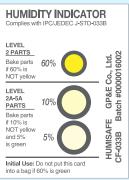
6CF-60N, 115 x 40mm



3CF-15A, 50 x 75mm



3CF-50A, 50 x 75mm



CF-033B, 50 x 75mm

# **☑** CERTIFICATES



JEDEC Report by Colorimeter Test

\* Full range of HICs which can be customized to meet customer's exact needs are available.