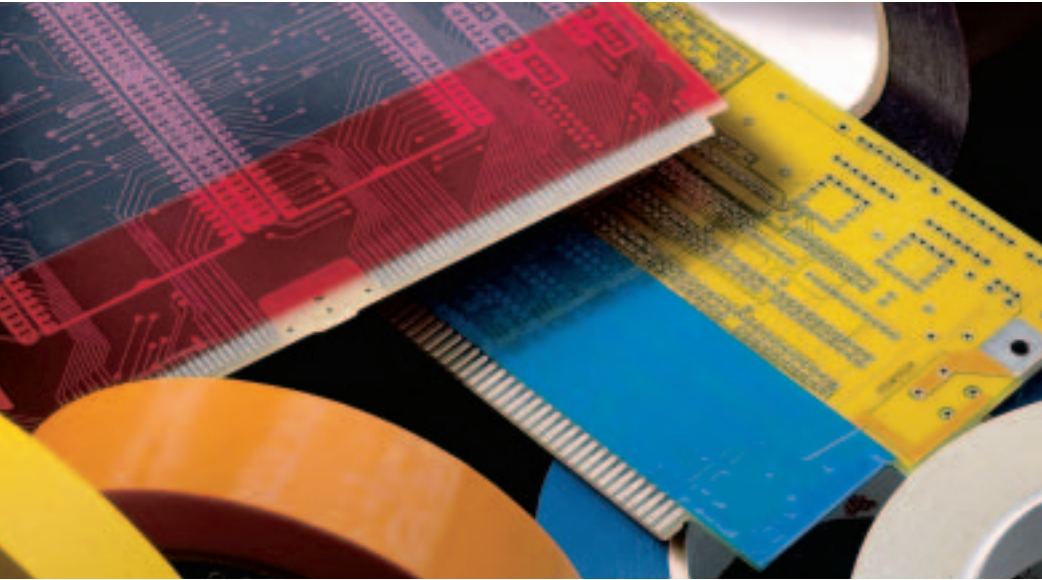


# CHR<sup>®</sup> Pressure Sensitive Adhesive Tapes



## Printed Circuit Board Fabrication Tapes

### Features/Benefits

- Prevents Plating Solution Undercutting
- Stands Up to Multiple Operating Cycles
- No Re-work Required
- No Adhesive Residue
- Greater Operator Safety
- Excellent Temperature and Chemical Resistance

### M717 Tin Lead Stripping Plating Tape

Plating tape M717 is specifically designed for Gold Tab Plating operations to mask off circuitry above the contact fingers. M717 has a thick and conformable adhesive, which prevents leakage from stripping and plating chemicals. This product is used in the most demanding applications requiring high performance and close tolerances. M717 is specially cured and will not leave an adhesive residue, eliminating costly clean-ups. M716, which protects circuitry from caustic fumes, is an excellent complement to M717, and is attached above M717 on the circuit board during the plating process. M717 is available in red.

### M716 Fume Protection Tape

Fume protection tape M716 protects the circuitry from chemical splashes and fumes during Gold Tab Plating operations. This cost-effective, low-adhesion tape has excellent chemical and high-temperature resistance. Generally, M716 is used with tin lead stripping plating tape M717 during plating operations. M716 is available in violet.

### M803 Solder Masking Over Bare Copper (SMOBC) Tape

M803 is designed for use in SMOBC processes. It is used in combination with a pre-applied protective solder mask and provides full protection to the exposed holes in the board. M803 is applied at the plating line by either automated equipment or by hand, and serves as a failsafe line of demarcation at the connector tabs. The tape is used in conjunction with three process options: (1) plating gold over bare copper circuitry, (2) plating gold over bare copper circuitry after solder mask is applied and (3) plating gold after solder mask application and solder leveling. The tape is constructed of silicone adhesive and polyester backing. M803 is easily removed and leaves no adhesive residue, eliminating re-work. M803 is available in blue.

### M734 and M788 Area Masking Tapes

M734 and M788 are low-cost substitutes for dry film in multi-layer processing to protect copper.

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The tapes using natural rubber adhesives save as much as half the cost compared to silicone-based products. M788 is specially designed for thin core boards and flexible circuitry. Both tapes withstand high temperatures and chemicals. M734 is available in orange and M788 is available in aqua.

### C663 Hot Air Leveling (HAL) Tape

C663 is applied to mask gold fingers, tab areas, and other sections of printed circuit boards during the hot air leveling process. C663 uses a silicone adhesive for the most demanding HAL applications. C663 adhesive is specially formulated to hold down and protect the gold fingers during rigorous HAL operations, yet remove cleanly from the board without splitting or leaving adhesive residue. Its thin construction reduces the damaging at the solder/tape butt line and is a

proven, effective mask in double wrap applications. These features provide lower labor costs for cleaning and increase product line efficiency. C663 is available in yellow.

### K-290ESD Hot Air Leveling (HAL) Tape

K-290ESD is constructed to fill the requirements of a high performance Thermoplastic (Polyimide Backing Materials). K-290ESD has excellent electrostatic discharge properties. The ESD additive reduces the electrostatic discharge that occurs upon tape removal. K-290ESD can safely and cleanly be removed from printed circuit boards. The proprietary adhesive system provides high electrostatic dissipation without sacrificing adhesive strength at extreme temperatures. K-290ESD offers excellent mechanical and electrical properties. K-290ESD is available with or without a liner.

## CHR® Pressure Sensitive Adhesive Tapes — Printed Circuit Board Fabrication Tapes

| Physical Properties/Part #       | C663                | K-290ESD                    | M716                        | M717                     | M734                        | M788                     | M803                     |
|----------------------------------|---------------------|-----------------------------|-----------------------------|--------------------------|-----------------------------|--------------------------|--------------------------|
| <b>Color</b>                     | Yellow              | Amber                       | Violet                      | Red                      | Orange                      | Aqua                     | Blue                     |
| <b>Adhesive system</b>           | Silicone            | Silicone                    | Rubber                      | Silicone                 | Rubber                      | Rubber                   | Silicone                 |
| <b>Substrate</b>                 | Polyester/<br>Paper | Polyimide<br>Film           | Polyester                   | Polyester                | Polyester                   | Polyester                | Polyester                |
| <b>Function</b>                  | HAL                 | Protection                  | Fume<br>Protection          | Gold<br>Plating          | Area<br>Protection          | Area<br>Protection       | Gold<br>Plating          |
| <b>Nominal Thickness:</b>        |                     |                             |                             |                          |                             |                          |                          |
| <b>Backing</b>                   | in.<br>(mm)         | 0.0065<br>(0.165)           | 0.0010<br>(0.0254)          | 0.0010<br>(0.025)        | 0.0010<br>(0.025)           | 0.0010<br>(0.025)        | 0.0010<br>(0.025)        |
| <b>Adhesive</b>                  | in.<br>(mm)         | 0.0030<br>(0.076)           | 0.0015<br>(0.0381)          | 0.0011<br>(0.028)        | 0.0028<br>(0.071)           | 0.0006<br>(0.015)        | 0.0005<br>(0.013)        |
| <b>Total</b>                     | in.<br>(mm)         | 0.0095<br>(0.241)           | 0.0025<br>(0.635)           | 0.0021<br>(0.053)        | 0.0038<br>(0.097)           | 0.0016<br>(0.041)        | 0.0015<br>(0.038)        |
| <b>Nominal Adhesion Strength</b> | oz/in.<br>(g/cm)    | 60<br>(661)                 | 20<br>(223)                 | 18<br>(198)              | 30<br>(331)                 | 6<br>(66)                | 5<br>(55)                |
| <b>Nominal Tensile Strength</b>  | lbs/in.<br>(kg/cm)  | 25<br>(4.5)                 | 25<br>(4.45)                | 25<br>(4.5)              | 25<br>(4.5)                 | 25<br>(4.5)              | 25<br>(4.5)              |
| <b>Elongation</b>                | (%)                 | <10                         | 50                          | 100                      | 100                         | 100                      | 100                      |
| <b>Temperature Range</b>         | °F<br>(°C)          | -100 TO 500<br>(-73 TO 260) | -100 TO 500<br>(-73 TO 260) | 0 TO 325<br>(-18 TO 163) | -100 TO 350<br>(-73 TO 177) | 0 TO 325<br>(-18 TO 163) | 0 TO 325<br>(-18 TO 163) |

*IMPORTANT NOTE TO PURCHASER: Values shown are typical and are not to be used for specifications. All data is subject to change without notice. Before using, the user should determine the suitability of the product for its intended use, and the user assumes all risk and liability in connection therewith. Specifications subject to change without notice.*



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