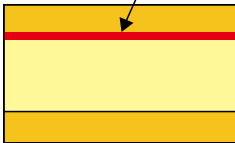
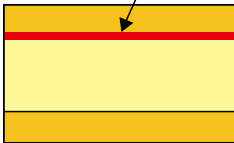


Ultra-low transmission loss circuit board materials with Buried Resistor copper Foil

| MEGTRON6 with Buried Resistor Copper Foil | MEGTRON7 with Buried Resistor Copper Foil | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--------|-------|-----|-----------------------------------|--------|---|---|--------|---|---|---------|---|---|---|--|--|--------|-------|-----------------------------------|--------|---|---|--------|---|---|---------|---|---|
| <p>● Product Number</p> <p>R-5775(S) Low Dk-glass cloth with Buried Resistor Copper Foil</p> <p>R-5775(R) E-glass cloth with Buried Resistor Copper Foil</p> <p>● Material Construction</p> <div style="display: flex; align-items: center;"> <div style="text-align: center; margin-right: 10px;">  </div> <div> <p>Buried Resistor Layer</p> <p>Buried Resistor Copper Foil 1/2oz</p> <p>MEGTRON6 E-glass cloth or Low Dk-glass cloth</p> <p>H-VLP or RTF</p> </div> </div> <p>● Copper Foil Combination</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th colspan="2"></th> <th>H-VLP</th> <th>RTF</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Buried Resistor Copper Foil 1/2oz</td> <td>25 Ohm</td> <td>●</td> <td>●</td> </tr> <tr> <td>50 Ohm</td> <td>●</td> <td>●</td> </tr> <tr> <td>100 Ohm</td> <td>●</td> <td>●</td> </tr> </tbody> </table> | | | H-VLP | RTF | Buried Resistor Copper Foil 1/2oz | 25 Ohm | ● | ● | 50 Ohm | ● | ● | 100 Ohm | ● | ● | <p>● Product Number</p> <p>R-578Y(R) Low Dk-glass cloth with Buried Resistor Copper Foil</p> <p>● Material Construction</p> <div style="display: flex; align-items: center;"> <div style="text-align: center; margin-right: 10px;">  </div> <div> <p>Buried Resistor Layer</p> <p>Buried Resistor Copper Foil 1/2oz</p> <p>MEGTRON7 Low Dk-glass cloth</p> <p>H-VLP2 or H-VLP</p> </div> </div> <p>● Copper Foil Combination</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th colspan="2"></th> <th>H-VLP2</th> <th>H-VLP</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Buried Resistor Copper Foil 1/2oz</td> <td>25 Ohm</td> <td>●</td> <td>●</td> </tr> <tr> <td>50 Ohm</td> <td>●</td> <td>●</td> </tr> <tr> <td>100 Ohm</td> <td>●</td> <td>●</td> </tr> </tbody> </table> | | | H-VLP2 | H-VLP | Buried Resistor Copper Foil 1/2oz | 25 Ohm | ● | ● | 50 Ohm | ● | ● | 100 Ohm | ● | ● |
| | | H-VLP | RTF | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Buried Resistor Copper Foil 1/2oz | 25 Ohm | ● | ● | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 50 Ohm | ● | ● | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 100 Ohm | ● | ● | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | H-VLP2 | H-VLP | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Buried Resistor Copper Foil 1/2oz | 25 Ohm | ● | ● | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 50 Ohm | ● | ● | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 100 Ohm | ● | ● | | | | | | | | | | | | | | | | | | | | | | | | | | |

* Buried Resistor Copper Foil thickness is only 1/2oz (18um).
 * All laminate thickness available for this copper foil option is same as conventional MEGTRON6 and MEGTRON7.
 * 25, 50 and 100 Ohm are the available resistor values from copper foil supplier.
 Panasonic Industry takes no responsibility for the processing and end product performance of these resistor layers.

Buried Resistor Copper Foil Variations

| Item | Unit | Condition | Specification | Guaranteed value |
|--|--------|-----------|---------------|------------------|
| Resistance of resistor layer ^{*1} | Ω / sq | A | 25 | 23.7 – 26.2 |
| | | | 50 | 47.5 – 52.5 |
| | | | 100 | 95.0 – 105.0 |

*1 The Guaranteed value mentioned in above table are guaranteed by copper foil supplier.

Copper foil properties comparison

| Item | Unit | Test method | Buried Resistor Copper Foil | | | | | | H-VLP | |
|-----------------------|------|------------------|-----------------------------|-----|------|-----------------|-----|------|-----------------|-----------------|
| | | | 25Ω | 50Ω | 100Ω | 25Ω | 50Ω | 100Ω | | |
| Peel strength (1/2oz) | kN/m | IPC-TM-650 2.4.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.5 | 0.7 |
| | | | MEGTRON6 | | | MEGTRON7 | | | MEGTRON6 | MEGTRON7 |

■ Remarks: Buried Resistor Copper Foil
 Panasonic Industry takes no responsibility with respect to the processing of the resistive foil and the laminate performance effected by the resistive foil.
 Questions related to the resistive foil are best answered by its supplier or the PCB fabricator.
 Panasonic Industry is able to provide the supplier contact information. If you need, Please contact Panasonic Industry local representatives.

Please see our website for Notes before you use.

The above data are typical values and not guaranteed values.