



# DCR

*4008/002 Para. 1.4.2*

*Change of the minimum  $R_{cold}$  and  $U_{drop}$  limits*

*2016-09-07*

*Update: 2016-11-23*

V3

## Justification

- > Limit tests of the HCSF out of the ESCC 4008002 Para. 1.4.2 specification have shown that there is a big margin (in particular regarding the lower limits). Therefore SCHURTER intends to extend the electrical specification limits.
- > Extending of the lower limits helps SCHURTER to improve the flexibility in production of the HCSF.
- > It supports the agility in production for both, the standard product HCF and the ESCC qualified HCSF.

## Improvement

SCHURTER intends to consider the following changes:

Change		Production Process	PID affected	Classification		Comments
No	Topic			Minor	Major	
1	<b>Specification ESCC 4008/002</b> Voltage Drop at IR, Min. Limits  Improvement: HCSF 7.5 A: 70 mV (old 75 mV) HCSF 10 A: 70 mV (old 75 mV) HCSF 15 A: 65 mV (old 75 mV)	Screening Chart F3, Burn-in Electrical measurements	no	X		<ul style="list-style-type: none"> <li>Affects ESCC 4008/002, 1.4.2</li> <li>Limits according to Data Sheet 0105.2099</li> </ul>
2	<b>Specification ESCC 4008/002</b> Cold Resistance Limits  Improvement: HCSF 7.5 A: - New: 8.2 mOhm – 12.2 mOhm - Old: 8.6 mOhm – 12.2 mOhm HCSF 10 A: - New: 7.0 mOhm – 9.3 mOhm - Old: 7.5 mOhm – 9.3 mOhm HCSF 15 A: - New: 3.75 mOhm – 4.9 mOhm - Old: 3.9 mOhm – 4.7 mOhm	Screening Chart F3, Burn-in Electrical measurements	no	X		<ul style="list-style-type: none"> <li>Affects ESCC 4008/002, 1.4.2</li> <li>Limits according to Data Sheet 0105.2099</li> </ul>

## Detail Specification 4008002

Exclusive changes in Para.1.4.2 as shown below:

### 1.4.2 Component Type Variants and Range of Components

The component type variants and range of components applicable to this specification are as follows:

Variant Number	Rated Current $I_R$ at $T_{amb} = +23^\circ\text{C}$ (Note 1) (A)	AC Rated Voltage (V)	DC Rated Voltage (V)	Cold Resistance (m $\Omega$ )		Voltage Drop at $I_R$ (mV)		Weight Max (g)
				Min	Max	Min	Max	
24	5	63	125	12.4	15.4	70	140	0.8
26	7.5	63	125	<del>8.6</del> 8.2	12.2	<del>75</del> 70	140	0.8
28	10	63	125	<del>7.5</del> 7.0	9.3	<del>75</del> 70	140	0.8
32	15	63	125	<del>3.9</del> 3.75	<del>4.7</del> 4.5	<del>75</del> 65	110	0.8