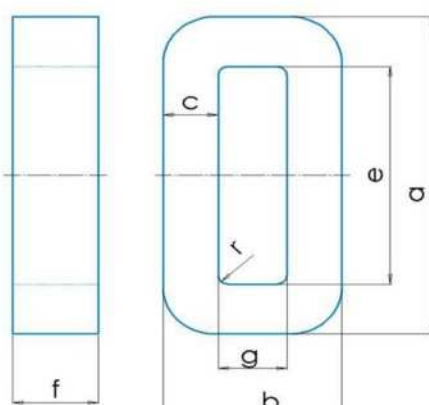


Datenblatt / Spezifikation

Data sheet / specification

Sachnummer (Typ) / part number (type) :		SEM01F-C075O-LG00-51 (SU 75b)																								
Produktbeschreibung / product description :		Schnittbandkern / c-core																								
Kernmaterial / core material :		Fe amorph / Fe amorphous																								
Eisenquerschnitt ¹⁾ / iron cross section (cm ²):		7,7																								
Mittlerer Eisenweg ¹⁾ / mean iron path (cm):		31,0																								
Kerngewicht ¹⁾ / core mass (g):		1764																								
Nenn-Abmessungen und Toleranzen / nominal dimensions and tolerances :																										
a	b	c	f	g	e	r																				
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)																				
125,0 + 3,5 - 2,0	72,4 + 3,0 - 2,0	23,7 ± 1,0	40,0 ± 1,0	25,0 - 0,3	78,0 - 0,3	≤ 3,0																				
Materialieigenschaften (nominell) / material properties (nominal) Banddicke / ribbon thickness (mm): 0,023 Sättigungsinduktion / saturation flux density (T): 1,56 Magnetostriktion / saturation magnetostriction (ppm): 27 Curietemperatur / curie temperature (°C): 399 Kristallisationstemp. / crystallization temperature (°C): 508 Dichte / density (g/cm ³): 7,18 Spez. Elektr. Widerstand / electr. resistivity (Ωmm ² /m): 1,3 Therm. Ausdehnungskoeff. / therm. expansion (ppm/K): 7,6				 <p style="text-align: center;">Skizze ohne Maßstab draft w/o scale</p>																						
Leistung (Richtwerte) / performance (guidance values) : Wickeldata: Winding data: <table border="1" style="display: inline-table; margin-right: 20px;"> <tr><td style="text-align: center;">A_{Cu,50%} [cm²]</td><td style="text-align: center;">I_{Cu} [cm]</td></tr> <tr><td style="text-align: center;">9,8</td><td style="text-align: center;">22,7</td></tr> </table> Richtwerte: guidance values: <table border="1" style="display: inline-table; margin-right: 20px;"> <tr><td style="text-align: center;">Ll² [VAs]</td><td style="text-align: center;">I_{eff} [A]</td></tr> <tr><td style="text-align: center;">1,88</td><td style="text-align: center;">43,3</td></tr> </table> Gültig für: Estimated for: <table border="1" style="display: inline-table; margin-right: 20px;"> <tr><td style="text-align: center;">S [A/mm²]</td><td style="text-align: center;">B₀ [T]</td><td style="text-align: center;">L [mH]</td></tr> <tr><td style="text-align: center;">2,5</td><td style="text-align: center;">1,0</td><td style="text-align: center;">1,0</td></tr> </table>				A _{Cu,50%} [cm ²]	I _{Cu} [cm]	9,8	22,7	Ll ² [VAs]	I _{eff} [A]	1,88	43,3	S [A/mm ²]	B ₀ [T]	L [mH]	2,5	1,0	1,0	Spezifikation / specification ²⁾ <table border="1" style="margin: auto;"> <tr><td colspan="2" style="text-align: center;">Verluste / core losses (16 kHz, 0,037 T):</td></tr> <tr><td style="text-align: center;">≤</td><td style="text-align: center;">2,0 W/kg</td></tr> <tr><td style="text-align: center;">≈</td><td style="text-align: center;">3,5 W</td></tr> </table> <p>¹⁾ gerechnet mit Nenn-Banddicke. Produktionsbedingte Gewichtsschwankungen möglich. ¹⁾ calculated with the nominal strip-thickness. Process depending mass tolerances possible.</p> <p>²⁾ AQL 0,65</p>			Verluste / core losses (16 kHz, 0,037 T):		≤	2,0 W/kg	≈	3,5 W
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Das amorphe Band ist nach der Wärmebehandlung spröde. Bei der Handhabung der Kerne sind Schutzmaßnahmen (Augenschutz) gegen evtl. abplatzende Splitter unbedingt einzuhalten. Beschädigte innere und äußere Bandlagen haben keine Auswirkungen auf die magnetischen Eigenschaften.																										
The amorphous strip is fairly brittle after annealing. The handling of the cores requires stringent safety procedures (eye protection) that are caused by chipping splinters. Damaged inner and outer core layers are not possible to avoid during the manufacturing process and no quality criteria. Magnetic properties are not influenced by broken outer and inner layers.																										