March 27, 2015

# Product change EPCOS aluminum electrolytic capacitors with screw terminals

New materials are being introduced for the manufacture of the cover disks for the EPCOS screw terminal capacitors. The properties and behavior of the new silica-reinforced epoxy-phenolic resin are comparable to the previously used materials. While the color of the new materials is black, the previously used wood-filled phenolic resin is brown.

Ordering code	Ordering code	Ordering code
B41456*	B43458*	B43566*
B41458*	B43464*	B43570*
B41465*	B43465*	B43580*
B41560*	B43467*	B43584*
B41580*	B43471*	B43586*
B43406*	B43474*	B43740*
B43407*	B43481*	B43750*
B43454*	B43484*	B43760*
B43455*	B43550*	B43770*
B43456*	B43560*	B43875*
B43457*	B43564*	

### Affected products

The cover disks made of the new material will uniformly incorporate vents of state-of-the art design. Capacitors with the new cover disks have no changes in their external dimensions with respect to assembly.

### Exceptions

The only exceptions concern types with a terminal diameter of 8 mm: The step around the terminals was reduced in height or eliminated altogether.

Capacitors with	Height of molded part		
diameters	Previous design	New design	
35.7 mm	~5 mm	~2 mm	
51.6 mm			
64.3 mm	~5 mm	0 mm	
76.9 mm			

**EPCOS AG** · A TDK Group Company Office: St.-Martin-Strasse 53, 81669 Munich · Post: P.O.Box 80 17 09, 81617 Munich, Germany Headquarters: Munich · Commercial register of the local court (Amtsgericht): Munich HRB 127250 Chairman of the Supervisory Board: Dr. Werner Faber

Management Board: Joachim Zichlarz, Chairman  $\cdot$  Joachim Thiele  $\cdot$  Dr. Norbert Hess  $\cdot$  Christian Block www.epcos.com

Aluminum Electrolytic Capacitors Internal / External u·p·t·o·d·a·t·e Newsletter 🐼 🔼

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These changes have no negative impact on the ruggedness, tightness or insulation properties.

Details may be seen in Annex 1. The affected ordering codes are listed in Annex 2.

Planned introduction: July 1, 2015

During a transitional period, shipments of the affected aluminum electrolytic capacitors may contain cover disk materials of both old and new types.

### Enclosure PCN

Annex 1: Illustration of new and old disk cover Annex 2: List of affected capacitor series and ordering codes

Contact Martin Testorf, CAP PM ALU, Munich

Customers are asked to address inquiries directly to their sales contacts.



# **Product / Process Change Notification**

1.	ID No.: ALU_CAP_27_2015_06		2. Date of announcement: March 27, 2015		
3.	Product / product group: Aluminum electrolytic capacitors with screw terminals	Old ordering code: B41456*, B41458*, B41465*, B41560*, B41580*, B43406*, B43407*, B43454*, B43455*, B43456*, B43455*, B43456*, B43457*, B43458*, B43464*, B43465*, B43464*, B43465*, B43467*, B43471*, B43474*, B43481*, B43484*, B43550*, B43560*, B43564*, B43560*, B43570*, B43580*, B43584*, B43586*, B43740*, B43750*, B43760*, B43770*, B43875*	New ordering code: No change	Customer part number:	
4.	Description of change: Introduction of alternative the cover disks. The properties and performanew materials is black (the The cover disks of the altern design. Capacitors with the new cov assembly.	ance of the new materials present wood-filled pheno native thermosetting mate	s are comparable to the polic resin is brown). erials will uniformly incorpo	resent one. The color of the orate a state-of-the-art vent	
	Exception: Only for types w The molded part around the See Annex 1 for an illustrati series and ordering codes. Capacitor diameter 35.7mm Capacitor diameter 51.6mm These changes have no neg	e screw terminals has bee on of the old and new de n: Heigh n/64.3mm/76.9mm: Heigh gative effect on ruggedne	en eliminated / reduced. sign. See Annex 2 for a lis t of the molded part chang t of the molded part chang ess, tightness or insulation	ged from ~5mm to ~2mm. ged from ~5mm to 0mm	
5.	Effect on the product or for Capacitors with the new cov assembly.	•			
6.	Quality assurance measure According to the EPCOS Q		onent traceability available	9.	
7.	<b>Scheduled date of change:</b> Phase-in of new (black) epoxy-phenolic cover disk materials starting on July 1, 2015. EPCOS reserves the right to deliver the product (EPCOS ordering code) with both old (brown) and new (black) cover disk materials.				



If EPCOS does not receive notification to the contrary within a period of 10 weeks, EPCOS assumes that the customer agrees to the change. For an interim period we cannot rule out that old as well as new products will be shipped.

Quality Management

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Customer feedback

Customer acknowledgement

Signature

Signature

signed Baur

signed Testorf

Signature



## <u>Annex 1</u> to UPtoDATE 150327ALU1 of March 27, 2015 / PCN EPCOS aluminum electrolytic capacitors with screw terminals

### Illustration of new and old cover disk for terminals with a diameter of 8 mm

Remark: Change of molded part around the terminals; for affected series and ordering codes, see Annex 2

	Old design	New design
Capacitor diameter 35 mm		
Capacitor diameter 50…90 mm		

Annex 2 to UPtoDATE 150327ALU1 of March 27, 2015 / PCN aluminum electrolytic capacitors with screw terminals

List of affected capacitor series and ordering codes with a terminal diameter of 8 mm Remark: Change of molded part around the terminals; for illustration see Annex 1

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Series	Ordering code	Series	Ordering code	Series	Ordering code
B41456	B41456B4100M000	B41560	B41560A5100M000	B43455	B43455A9158M000
	B41456B4150M000		B41560A5159M000	continuing	B43455B4228M000
	B41456B4229M000		B41560A5229M000		B43455B4338M000
	B41456B4339M000		B41560A5339M000		B43455B5108M000
	B41456B4479M000		B41560A5479M000		B43455B5228M000
	B41456B4689M000		B41560A5689M000		B43455S2109M001
	B41456B5100M000		B41560A7109M000		B43455S4338M003
	B41456B5229M000		B41560A7159M000		B43455S5228M001
	B41456B5339M000		B41560A7229M000		B43455S5338M001
	B41456B5479M000		B41560A7339M000		B43455S9208M001
	B41456B5689M000		B41560A7479M000		B43455S9318A001
	B41456B7109M000		B41560A7689M000		B43455S9338M002
	B41456B7159M000		B41560A8109M000		B43455S9338Q001
	B41456B7229M000		B41560A8159M000		B43455T5167T001
	B41456B7339M000		B41560A8229M000		B43455T5208T002
	B41456B7479M000		B41560A8478M000		B43455T5937T001
	B41456B7689M000		B41560A8688M000		B43455U4608T001
	B41456B8109M000		B41560A9109M000		B43455U5208T003
	B41456B8159M000		B41560A9158M000		
	B41456B8229M000		B41560A9228M000	B43456	B43456A4158M000
	B41456B8339M000		B41560A9338M000	210100	B43456A4228M000
	B41456B8478M000		B41560A9478M000		B43456A5108M000
	B41456B8688M000		B41560A9688M000		B43456A5158M000
	B41456B9109M000		D-1000/000000000		B43456A9108M000
	B41456B9159M000	B41580	B41580A5100M000		B43456A9158M000
	B41456B9228M000	541300	B41580A5229M000		B43456A9228M000
	B41456B9338M000		B41580A5339M000		B43456S9568M001
	B41456B9478M000		B41580A5479M000		D434303930010001
	B41456B9688M000		B41580A5689M000	B43457	B43457A0108M000
	B41456S7479M001		B41580A7109M000	045457	B43457A1688M000
	B41456S8109M001		B41580A7159M000		B43457A2108M000
	B41430381091001		B41580A7229M000		B43457A0228M000
341458	B41458B4100M000		B41580A7339M000		B43457A2338M000
,41450	B41458B4150M000		B41580A7479M000		B43457A2478M000
	B41458B4229M000		B41580A7689M000		B43457A4158M000
	B41458B5100M000		B41580A8159M000		B43457A9158M000
	B41458B5339M000		B41580A8229M000		B43457B4228M000
	B41458B5689M000		B41580A8229M000		B43457B4338M000
	B41458B7109M000		B41580A9109M000		B43457B5228M000
	B41458B7159M000		B41580A9228M000		B43457S0338M004
	B41458B7229M000		B41580A9338M000		B43457S0338M004 B43457S0338M005
					B43457S4478M001
	B41458B7339M000		B41580A9478M000		
	B41458B7479M000		B41580A9688M000		B43457S4688Q001 B43457S4688Q002
	B41458B7689M000	B 42 406	P42406805784004		
	B41458B8109M000	B43406	B43406S9578A001		B43457S0478M002
	B41458B8159M000	D 40 407	D 40 4070 0000 4 001		B43457S5228M006
	B41458B8229M000	B43407	B43407S6638A001		B43457S5338M006
	B41458B8339M000	D 10 155			B43457S5478M003
	B41458B8478M000	B43455	B43455A0108M000		B43457S5568Q001
	B41458B9109M000		B43455A0158M000		B43457S0888Q001
	B41458B9159M000		B43455A2228M000		B43457S9478M001
	B41458B9228M000		B43455A0228M000		B43457T5167T001
	B41458B9338M000		B43455A2338M000		
	B41458B9478M000		B43455A2478M000		
	B41458B9688M000		B43455A4108M000		
	B41458S7159M001		B43455A4158M000		
			<b>B</b>		
	B41458S7279M001		B43455A5227M000		
	B41458S7279M001 B41458S9648M001		B43455A5227M000 B43455A5477M000		

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Series	Ordering code	Series	Ordering code
B43458	B43458A4158M000	B43566	B43566A0108Q000
	B43458A4228M000		B43566A0158Q000
	B43458A5108M000		B43566A4228Q000
	B43458A5158M000		B43566A0477Q000
	B43458A9108M000		B43566A5108Q000
	B43458A9158M000		B43566A5477Q000
	B43458A9228M000		B43566A5687Q000
	B43458S9228M001		B43566B4108Q000
			B43566S4108Q001
B43465	B43465S0189Q001		
	B43465T5707Q001	B43570	B43570A2227Q000
	B43465U4998Q001		B43570A4157Q000
	B43465U5547T001		B43570C2108Q000
	B43403033471001		
	D 10 1070 10071 1000		B43570F0687Q000
B43467	B43467S4337M002		B43570S4338Q003
	B43467S0477Q001		B43570S4478Q010
			B43570S0477Q002
343550	B43550A1338Q000		
	B43550A4158Q000	B43584	B43584A0108M000
	B43550A4477Q000		B43584A0158M000
	B43550C1228Q000		B43584A2108M000
	B43550S0108Q003		B43584A2228M000
	B43550S4408T003		B43584A0228M000
	B43550S5158M002		B43584A2478M000
	B43550S5478M001		B43584A4158M000
			B43584A4158Q000
343564	B43564A0108M000		B43584A6108M000
	B43564A1228M000		B43584A6128M000
	B43564A1338M000		B43584A6188M000
	B43564A1688M000		B43584B4228M000
	B43564A2108M000		B43584B4338M000
	B43564A2228M000		B43584S0108Q002
	B43564A0228M000		B43584S0228Q003
	B43564A4108M000		B43584S0338Q003
	B43564A4158M000		B43584S4109Q003
	B43564A5108M000		B43584S4109Q005
	B43564A5158M000		B43584S4478Q003
	B43564A6108M000		B43584S4478Q004
	B43564A6188M000		B43584S6228M004
	B43564A6477M000		B43584S9108M002
	B43564A6827M000		B43584S9158M002
	B43564S0188M001		B43584U4608Q001
	B43564S0228M003		
	B43564S0338M004	B43586	B43586A0108Q000
	B43564S0338Q002	2,0000	B43586A0477Q000
	B43564S0398M003		B43586A5477Q000
	B43564S0478M004		B43586A5687Q000
	B43564S5108Q002		B43586S0158Q001
	B43564S5228Q004		B43586S0228Q002
	B43564S9228M005		B43586S0338Q001
	B43564S9228M006		B43586S4228Q001
	B43564S9338M001		B43586S6228M001
	B43564S9338M002		B43586S6478M001
	B43564S9398M001		B43586S6568M001
			B43586S9687Q002
	B43564S9478M003		D40000000000000
	B43564S9478M003 B43564S9478M004		D4330039007Q002
	B43564S9478M004		D4330039007Q002
			D4330039007Q002