

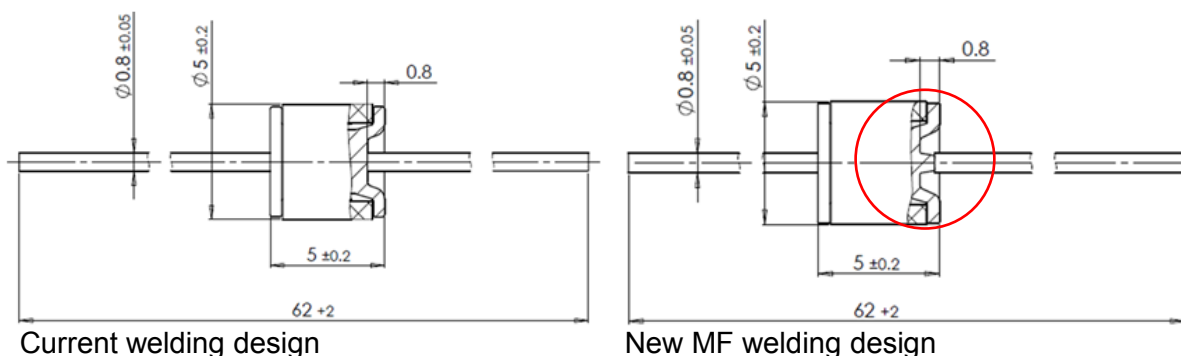
January 19, 2018

## PCN

### Middle frequency welding for EPCOS M5 surge arresters

Middle frequency (MF) welding technology has now been qualified and internally approved for the EPCOS M5 series of 2-electrode surge arresters manufactured in the Xiaogan, China, plant. Copper (Cu) will be used as the base electrode material instead of iron/nickel (Fe/Ni). The dimensions of the components remain unchanged with the exception of very minor modification to the calotte of the outer electrodes. The plant in Xiaogan already introduced this MF welding technique in 2010.

#### Comparison of welding designs



All electrical and mechanical characteristics are unchanged. The type designations and delivery times likewise remain unchanged. The qualification was successfully performed according to ISO/TS 16949 requirements.

#### Affected products

Ordering code	Type	Ordering code	Type
B88069X8871C102	M51-A350XT2	B88068X9141S102	M51-A800XLP2
B88069X8871B502	M51-A350XT2	B88069X9141S102	M51-A800XLP2
B88069X8871T103	M51-A350XT2	B88069X9141T502	M51-A800XLP2
B88069X9841C102	M51-A150X	B88069X4781S102	M51-A800XP
B88069X9841S102	M51-A150X	B88069X4781T502	M51-A800XP
B88069X2930C102	M51-A230X	B88069X6420C102	M51-A900X
B88069X4510C102	M51-A230XA	B88069X6390T103	M51-A900XG
B88069X4520B502	M51-A230XAF	B88069X5601B502	M51-A90XC1
B88069X4520S102	M51-A230XAF	B88169X2269B502	M51-A90XC1
B88069X2720C102	M51-A230XDF	B88069X7231B502	M51-A90XSFSMD
B88069X4660C102	M51-A230XF	B88069X3743T902	M51-A90XSL2
B88069X4690T802	M51-A230XFG	B88069X4163T902	M51-A90ZSMDA
B88069X4700T103	M51-A230XG	B88069X8581C102	M51-C600XF

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Ordering code	Type	Ordering code	Type
B88069X7351T902	M51-A230XSL	B88069X7361T902	M51-C600XSL
B88069X4540T902	M51-A230XSMD	B88069X4680C102	M51-C90
B88069X5220T602	M51-A230XSMD	B88069X4550T103	M51-C90G
B88069X4610T902	M51-A230XSMD2	B88069X4740T902	M51-C90SMD
B88069X4530C102	M51-A260X	B88069X5010C102	M51-C90X
B88069X4640C102	M51-A350X	B88069X5010S102	M51-C90X
B88069X4291C102	M51-A350XF	B88169X2250C102	M51-C90X
B88069X5040T103	M51-A350XG	B88169X2250S102	M51-C90X
B88069X3553C102	M51-A470XS	B88069X2351C102	M51-C90XF
B88069X3553T103	M51-A470XS	B88069X5020T103	M51-C90XG
B88069X2973B502	M51-A500XSB2	B88069X6781T902	M51-C90XSL
B88069X4053B502	M51-A500XSB2A	B88069X4760T902	M51-C90XSMD
B88069X4590C102	M51-A600X	B88169X2311T902	M51-C90XSMD
B88069X3341B502	M51-A600XB	B88069X5380T902	M51-C90XSMD2
B88069X4560T103	M51-A600XG	B88069X4710C102	M52-A230X
B88069X4570T103	M51-A600XG	B88069X4720T103	M52-A230XG
B88069X4480T902	M51-A600XSMD	B88069X3801B502	M59-A350XF1
B88069X4620T902	M51-A600XSMD2	B88069X3801C102	M59-A350XF1
B88069X6131C102	M51-A75X	B88069X3403B502	M59-A75XT1F1
B88069X9541C102	M51-A75XF		

Scheduled date of introduction: April 20, 2018

**Enclosure** PCN (ID No. PPD18/T122)

**Contact** Wong Huan Chee, PPD AB PM, Johor Bahru

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

## Product / Process Change Notification

<b>1. ID No.:</b> PPD18/ T122		<b>2. Date of announcement:</b> January 19, 2018	
<b>3. Product / product group:</b> M5 series	<b>Old ordering code:</b> See UPtoDATE newsletter	<b>New ordering code:</b> N/A	<b>Customer part number:</b> N/A
<b>4. Description of change:</b> Middle frequency (MF) welding technology has now been qualified and internally approved for the EPCOS M5 series of 2-electrode surge arresters manufactured in the Xiaogan, China, plant. Copper (Cu) will be used as the base electrode material instead of iron/nickel (Fe/Ni). The dimensions of the components remain unchanged with the exception of very minor modification to the calotte of the outer electrodes. The details of the change and the affected products are listed in the UPtoDATE newsletter.			
<b>5. Effect on the product or for the customer (benefit, quality, specification, lead time):</b> The type designations, and delivery times remain unchanged. All electrical and mechanical characteristics are unchanged.			
<b>6. Quality assurance measures / risk assessment:</b> The qualification is in accordance with our internal green-light quality procedure. The investigations for internal release showed no effects on the mechanical characteristics as a consequence of the change described in item 4. The established control plans will consequently not be changed. All quality assurance measures will be maintained. Samples are available on request.			
<b>7. Scheduled date of change:</b> April 20, 2018			
<b>8. Estimated date of first delivery of changed product:</b> April 20, 2018 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 Name Markus Weiglhofer		Signature signed Weiglhofer	
Product Marketing Name Wong Huan Chee Tel. +607 3566 666 Email huanchee.wong@epcos.com		Signature signed Wong	
<b>Customer feedback</b>			
Customer acknowledgement		Signature	