

November 14, 2014

Product change New marking for SAW filters

This UPtoDATE replaces UPtoDATE 140131SAW1e and PCN M244 of January 31, 2014. In response to customer demand, EPCOS has further adapted the traceability of EPCOS SAW filters.

The marking on top of all products in CSSP technology will be replaced by coded information. More than one lot of a specific type can be produced in a single day. Accordingly, the date code used up to now is insufficient to identify an individual assembly lot. The new marking format includes a 3-digit BASE47 code in the bottom row encoding the last five digits of the complete 7-digit assembly lot number (without the A in front), which allows the product to be traced down to a single lot. In addition, a 3-digit BASE32 code in the top row encodes all digits of the device name (for details, see Annex 1 and 2).

Affected products

Ordering code
B39*B76*
B39*B77*
B39*B78*
B39*B79*
B39*B80*
B39*B83*
B39*B84*
B39*B85*
B39*B86*
B39*B87* without B39*B8753* and B39*B8755*
B39*B88*
B39*B90*
B39*B91*
B39*B93*
B39*B94*
B39*B95*
B39*B96*
B39*B97*
B39*B98*
B39*B99*

Scheduled date of introduction: April 18, 2015

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

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SAW Components, Modules Internal / External

EPCOS·u·p·t·o·d·a·t·e·Newsletter



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Comparison of new and previous markings

Package technology	Previous marking	New marking
CSSPlus DPX	● JXCD	16J • 5UY
CSSPlus BAW DPX	EPCOS X X X X	16J
CSSP3 GT	• JXCD	16J • 5UY
CSSP3 Cu	↓ XXXX ■ JXCD	16J 5UY
CSSP3 BAW Hybrid	• XXXX JXCD	

The implementation of the new marking format will have no effect on the specifications, quality, ordering codes or delivery time of the products. No additional quality assurance measures are needed, as the marking process parameters remain unchanged.

Enclosure PCN

Annex 1: Example of new marking Annex 2: Explanation of new marking code

Contact Thomas Friedrich, SAW CEL PM CA, Munich

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

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Product / Process Change Notification

1.	ID No.: M274		2. Date of announcem	ent: November 14, 2014
3.	Product / product group:	Old ordering code:	New ordering code:	Customer part number:
	EPCOS SAW filters	B39*B76*,	No change	
		B39*B77*,		
		B39*B78*,		
		B39*B79*,		
		B39*B80*,		
		B39*B83*,		
		B39*B84*,		
		B39*B85*,		
		B39*B86*,		
		B39*B87* except B39*B8753* and B39*B8755*,		
		B39*B88*,		
		B39*B90*,		
		B39*B91*,		
		B39*B93*,		
		B39*B94*,		
		B39*B95*,		
		B39*B96*,		
		B39*B97*,		
		B39*B98*,		
		B39*B99*		
4.	Description of change:			
	For better traceability of EPCOS SAW filters, the marking on top of all products in CSSP technology will be replaced by coded information. More than one lot of a specific type can be produced in a single day. Accordingly, the date code used up to now is insufficient to identify an individual assembly lot. The new marking format includes a 3-digit BASE47 code in the bottom row encoding the last five digits of the complete 7-digit assembly lot number (without the A in front), which allow the product to be traced down to a single lot. In addition, a 3-digit BASE32 code in the top row encodes all digits of the device name (for details, see Annex 1 and 2).			
5.	Effect on the product or for the customer (benefit, quality, specification, lead time):			
	The implementation of the new marking format will have no effect on the specifications, quality, ordering codes or delivery time of the products.			
6.	 Quality assurance measures / risk assessment: No additional quality assurance measures are needed, as the marking process parameters remain unchanged. 			
7.	Scheduled date of change: April 18, 2015			
8.	Estimated date of first del	ivery of changed produ	ct: April 18, 2015	
	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.			
9.	Identification of changed product (first date code / marking):			

New marking

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Quality Management

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Product Marketing

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10. Customer feedback

Customer acknowledgement

Signature signed F.Schoenegger

Signature signed Th.Friedrich

Signature



Annex 1 to UPtoDATE 141114SAW1 of November 14, 2014 / New marking for SAW filters

Example of new marking / series production



Last five digits of lot number

12345



Base47 coded

5UY





Annex 2 to UPtoDATE 141114SAW1 of November 14, 2014 / New marking for SAW filters

<u>A) Explanation of new marking code for all non-AE filters and duplexers with CSSP package technology starting with marking from February 1, 2015</u>

	Adopted Base32 code					
	f	or device I	or device name			
	Decimal position value	Base32 code	Decimal position value	Base32 code		Decimal position value
	0	0	16	G		0
	1	1	17	Н		1
	2	2	18	J		2
	3	3	19	К		3
	4	4	20	М		4
	5	5	21	Ν		5
	6	6	22	Р		6
	7	7	23	Q		7
	8	8	24	R		8
	9	9	25	S		9
	10	А	26	Т		10
Í	11	В	27	V		11
	12	С	28	W		12
	13	D	29	Х		13
ſ	14	E	30	Y		14
	15	F	31	Z		15
1						10

Adopted Base47 code					
for last five digits of lot number					
Decimal	Base47	Decimal	Base47		
position	code	position	code		
value		value	_		
0	0	24	R		
1	1	25	S		
2	2	26	Т		
3	3	27	U		
4	4	28	V		
5	5	29	W		
6	6	30	Х		
7	7	31	Y		
8	8	32	Z		
9	9	33	b		
10	А	34	d		
11	В	35	f		
12	С	36	h		
13	D	37	n		
14	Е	38	r		
15	F	39	t		
16	G	40	v		
17	Н	41	١		
18	J	42	?		
19	K	43	{		
20	L	44	}		
21	М	45	<		
22	N	46	>		
23	Р				

1/2



B) Examples of encoding and decoding

Device name encoding example B1234:	In adopted Base32 code		
Without B in decimal code: 1234			
1234 : 32 = 38 with remainder 18	=	J	
38:32 = 1 with remainder 6	=	6	
1:32=0 with remainder 1	=	1	
(Combine the encoded remainders to form new device name in special Base32 code starting with the last remainder first)		16J	
Device name decoding example:			
Device name in special Base32 code: 16J	In decimal code:		
$1 \times 32^{2} + 6 \times 32^{1} + 18 (=J) \times 32^{0} =$	1234		

Last 5 digits of lot number encoding example:	In adopted Base47 code
in decimal code: 12345	
12345 : 47 = 262 with remainder 31	= Y
262 : 47 = 5 with remainder 27	= U
5:47 = 0 with remainder 5	= 5
(Combine the encoded remainders to form a new lot number in special Base47 code starting with the last remainder first)	5 U Y
Lot number decoding example:	
Lot number in special Base47 code: 5UY	In decimal code:
$5 \times 47^2 + 27 (=0) \times 47^1 + 31 (=Y) \times 47^0 =$	12345