

**To : RS Components**

Panasonic Power Inductors

– Metal Composite –

**ETQP3MR68KVP**

Revised DC resistance specifications  
of ETQP3MR68KVP

2023/1/23

Device Solutions Business Division

Inductor BU

Engineering Group

**Panasonic**

INDUSTRY

**IN Your  
Future**

# Change background

## <Change background>

Part number	Panasonic part number
3001220423	ETQP3MR68KVP

Current Spec. : 7.6mΩ±10% → **New Spec : 7.1mΩ±10%**

ETQP3MR68KVP has been mass-produced since 2016.

Based on the results of samples and mass production, the DC resistance value has remained at the lower limit of the standard. (see next page)

We would like to review the DCR specs. ( Change in catalog specs )

Considering the use of general inductors, low DCR seems to have high product performance.

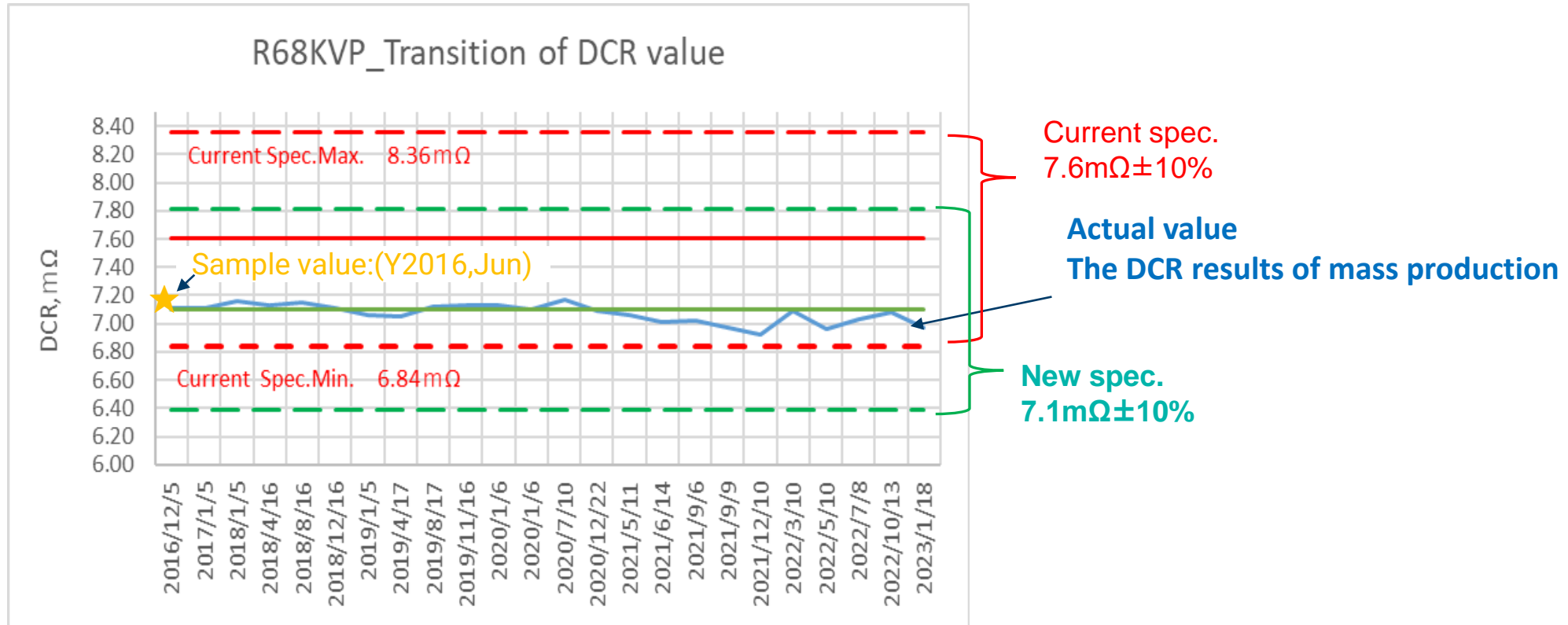
ETQP3NR68KVP is for general purpose production and inspection.

So, we would like to ask your company to change the standard.

## Delivery specification example

SPECIFICATION		Power Choke Coil		Spec.No. (R-0)	
仕様番号	納入仕様書			[記号番号]	
Part No.	ETQP3MR68KVP			151-ETQP3MR68KVP	
品番	(ETQP3MR68KVP)			11-1	
<b>Maximum Rating [最大定格]</b>					
Items [項目]	Specification [規格]				
Operating Temp. [動作保証温度]	-55 ~ 155 °C (including self temp. rise) [自己温度上昇分を含む]				
Operating Voltage [動作電圧]	25 V <sub>DC</sub> max.				
Rated Current [定格電流]	2.4 A (I <sub>DC</sub> at T <sub>1</sub> =70°C, 4Layer, PCB.FRM=1.6mm) [60(温度上昇40°C), 4層PCB, FR4, t=1.6mm]				
(Reference: [参考])	5.2 A (I <sub>DC</sub> at T <sub>1</sub> =15°C, 4Layer, PCB.FRM=1.6mm) [60(温度上昇15°C), 4層PCB, FR4, t=1.6mm]				
<b>General Items [一般項目]</b>					
Items [項目]	Specification [規格]				
Appearance & Construction [外形・構造]	See the drawing for appearance and construction, etc. [形状・寸法・公差は外観図による]				
Type :	MIS30M-LP	Weight(mass) :		0.4 g ± 0.1 g	
Basic Construction [内部構造]	Specified material with proper grade and thickness shall be used. [指定の材質、グレード、厚みのものをよく使用してください。]				
Storage Condition. [保管条件]	-5~35 °C, 85%RH max. within 1 year. [-5~35 °C, 85%RH以下, 1年以内] Moisture sensitivity level: Level 1. [MSL: L-1] However, the solderability is guaranteed for 1 year only. [ただし、はんだ付け保証は1年以内] The product out of expiration date shall not be used. [保管期間を切れた製品は使用不可とする。]				
Items [項目]	Specification [規格]				
Inductance [インダクタンス]	DC 0A	0.68 μH ± 20 %	series mode		
DC Resistance (at 20°C) [直流抵抗]	7.1 mΩ ± 10 %				
Insulation Resistance [絶縁抵抗]	Terminal - Core(Top face) [端子 - コア(上面)]	10 MΩ min.			
DC 40V					
Revision Record [改訂履歴]	Mark	Revised Date	Info.No.	Mark	Revised Date
	△			△	
	△			△	
	△			△	
Date Established [制定日付]	Panasonic Industry Co., Ltd. パナソニックインダストリー株式会社			Engineering Department [技術部]	
				Approved [承認]	Checked [確認]
Date Entered [実施日付]	2016/1/1			中国	あ
				S.Nakazono	B

# Explanation of the process



This change is to revise the DCR value to match the actual value,

So, no change in production conditions or materials.

There are no changes in other specs or reliability except for changes in DCR specs.

**Panasonic**  
INDUSTRY