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

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Part number	Panasonic part number
3001220423	ETQP3MR68KVP

Current Spec. : $7.6 \text{m}\Omega \pm 10\% \rightarrow \text{New Spec} : 7.1 \text{m}\Omega \pm 10\%$

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)

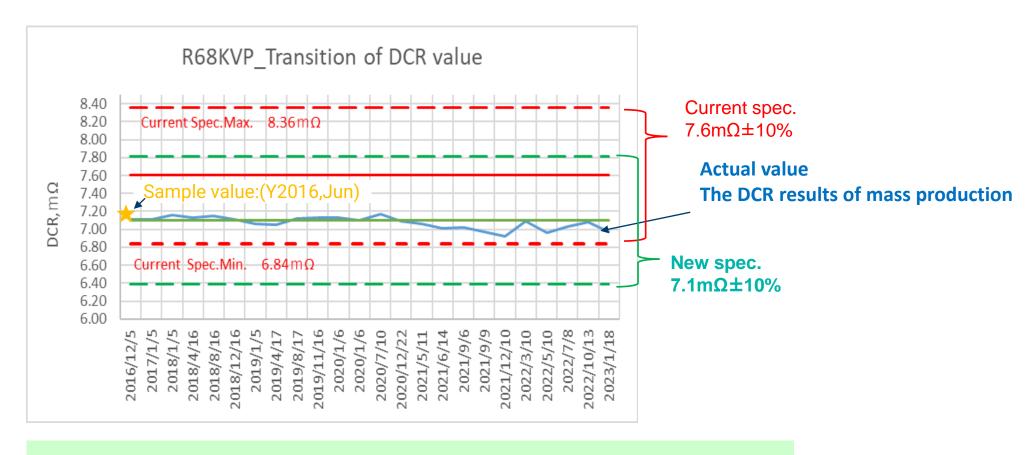
Considering the use of general inductors, low DCR seems to have high product performance.

ETQP3NR68KVP is for general purpose production and inspection. So, we would like to ask your company to change the standard.

Delivery specification example

	SPECIFICATION <u>Power Choke Coil</u> Spec.No. (R – 0)
	納入仕様書] [記号番号]
	ETQP3MR68KVP 151-ETQP3MR68KVP
[88]	(ETQP3MR68KVP) 11-1
Maximum Rating [最大定	
Items [項目] Operating Temp. [動作保証温度]	Specification [規格] -55 ~ 155 °C (Including self temp. rise) [自己温度上昇分を含む]
Operating 1 emp. [動作樂監温度] Operating Voltage. [動作電圧]	-55 ~ 155 C (including self temp. rise) [自己温度工弁方を書む] 25 Vo-p max.
Rated Current. [定格電流]	8.4 A (klc.st /T=40K, 4Layer_PCB,FR4,t=1.6mm) [Idc(温度上昇40K), 4層PCB, FR4, t=1.6mm]
(Reference[参考]]) 5.2 A (ldc at _T=15K, 4Layer_PCB,FR4,t=1.6mm) [Ide(温度上昇15K), 4層PCB, FR4, t=1.6mm]
General Items [一般項目]	
Items [項目] Appearance & Construction	Specification [規格]
Appearance & Construction [外観·構造]	See the drawing for appearance and constructionetc. [形状・寸法・表示は外観図による] Type: M0530M-LP Weight(mass):
or one smaller	Type: M0530M-LP Weight(mass): [タイプ] (重量(質量)) 0.4 g ± 0.1 g
Inner Construction	Specified material with proper grade and thickness shall be used.
[内部構造]	[規定の材質、グレード、材厚のものが正しく使用されていること。]
Storage Condition.	-5~35 °C, 85%RH max, within 1 year [-5~35 °C, 85%RH以下, 1年以内
[保管条件]	Moisture sensitivity level: Level 1 MSL: レベル1
	However, the solderability is guaranteed ただし、はんだ付け保証は1年以内
	for I year only . 保管期限を切れた製品は使用不可
	The product out of expiration date とする。] shall not be used.
	sinn not be used.
escenten emmeteranes - p	IN XIANTY IX.
Items [項目]	Specification [規格]
nductance	DC 0A 0.68 µH ± 20 % series mode
インダクタンス]	DC 0A 0.68 µH ± 20 % series mode
インダクタンス]	Keysight E4980A4284A,KOKUYO KC-547 or equivalent measurement equipment. (ALC OFF)
インダクタンス] AC:100kHz;1Vms	Keysight E4980A4284A.KOKUYO KC-547 or equivalent measurement equipment. (ALC OFF) [Keysight E4980A4284A.KOKUYO KC-547 Zit相当機 (ALC OFF)]
インダクタンス]	Keysight E4980A4284A,KOKUYO KC-547 or equivalent measurement equipment. (ALC OFF)
インダクタンス】 AC-100kH2,1VIms DC Resistance (at 20°C)	Keysight E4980A4284A.KOKUYO KC-547 or equivalent measurement equipment. (ALC OFF) [Keysight E4980A4284A.KOKUYO KC-547 Zit相当機 (ALC OFF)]
インダクタンス] AC.100xBC,1Vmis DC Resistance (at 20°C) 直流接抗] Insulation Resistance	Keysigh E9800A-CSSA, KOKUYO KC-St7 or equivalent measurement equipment. (ALC OFF) Resynght_E6880A-CSSAA, KOKUYO KC-St7 or equivalent measurement equipment. (ALC OFF) 7.1
インダクタンス] AC.100xBC,1Vmis DC Resistance (at 20°C) 直流接抗] Insulation Resistance	Krysight E9900A-228A-KOKUYO KC-547 or equivalent menurrement equipment. (ALC 04F)
インダクタンス] Act (ORFE) tvrms DC Resistance (at 20°C) 直流移抗 Insulation Resistance D能緩移抗	Krysight E9900AL2SSA.KOKIYO KC-SFF or equivalent measurement equipment. (ALC 08F)
インダクタンス] Act (ORFE) tvrms DC Resistance (at 20°C) 直流移抗 Insulation Resistance D能緩移抗	Krysight E9900AL2SSA.KOKIYO KC-SFF or equivalent measurement equipment. (ALC 08F)
インダクタンス] Act (ORFE) tvrms DC Resistance (at 20°C) 直流移抗 Insulation Resistance D能緩移抗	Krysight E9900AL2SSA.KOKIYO KC-SFF or equivalent measurement equipment. (ALC 08F)
インダクタンス] Act (ORFE) tvrms DC Resistance (at 20°C) 直流移抗 Insulation Resistance D能緩移抗	Krysight E9900AL2SSA.KOKIYO KC-SFF or equivalent measurement equipment. (ALC 08F)
インダクタンス] Act (ORFE) tvrms DC Resistance (at 20°C) 直流移抗 Insulation Resistance D能緩移抗	Krysight E9900A-228A-KOKUYO KC-547 or equivalent menurrement equipment. (ALC 04F)
ACHOMECT VIIII ACHOMECT VIIII DC Resistance (at 20°C) 直接終財 直接終財 Docaldring Resistance Resistance	Keynight E8900A-C55AA KOKUYO KC-547 or equivalent measurement equipment. (ALC 08F) [Reynight, E4900A-428AA KOKUYO KC-542 Zelf 書 禮 (AC 08F)] 7.1 mΩ = 10 % Temninal Con(Top face) 10 MΩ mis. [周子 - コア天裏]
ACM ウランス) MC-100412L VIIII DC Resistance (at 20°C) 直接接対 Bookston Resistance Basis (E) DC 40°V Revision Record	Keyufut EP900A-23-AA-KOKUYO KC-547 or equivalent measurement equipment. (ALC OFF) Meyufut, E6000A-(23-AA-KOKUYO KC-547 or equivalent measurement equipment. (ALC OFF) Meyufut, E6000A-(23-AA-KOKUYO KC-547 or equivalent measurement equipment. (ALC OFF) Tomalasi-Count'rep face
ACHOMECT VIIII ACHOMECT VIIII DC Resistance (at 20°C) 直接終財 直接終財 Docaldring Resistance Resistance	Keyufut EP900A-23-AA-KOKUYO KC-547 or equivalent measurement equipment. (ALC OFF) Meyufut, E6000A-(23-AA-KOKUYO KC-547 or equivalent measurement equipment. (ALC OFF) Meyufut, E6000A-(23-AA-KOKUYO KC-547 or equivalent measurement equipment. (ALC OFF) Tomalasi-Count'rep face
ACM ウランス) MC-100412L VIIII DC Resistance (at 20°C) 直接接対 Bookston Resistance Basis (E) DC 40°V Revision Record	Krysight E4900ACNA KOKIYO KC-5f or equivalent measurement equipment. (ALC 0FF) [Krysight E4900A CNA ADMANORIYO KC-5f or equivalent measurement equipment. (ALC 0FF) Tomainsi-Conv(Top face)
ACM ウランス) MC-100412L VIIII DC Resistance (at 20°C) 直接接対 Bookston Resistance Basis (E) DC 40°V Revision Record	Krystight EPRONALDNA EXELTYO KC-S4T or equivalent measurement oppignent. (ALC GFF) Mrystight EPRONALDNA EXPONATOR INC. S417上报温度 (ALC GFF) Terminal Core(Top face)
インダクタンス) AC-100名(VIIII) AC-100名(VIIII) DC Resistance (st 20°C) 国際機能 Bouldrides Resistance Be機能対 DC 40V Becknice Record (され 復選)	Keynight E4900ACNAA KOKIYO KC-547 or equivalent measurement equipment. (ALC OFF) Meynight E4900A CNAA KOKIYO KC-547 E482 (ALC OFF) Terminal Curv(Top face)
ACM クランス] MC 100 HZL 1 Virin DC Resistance (at 20°C) 直接接到 Doubliston Resistance Best 150 1 DC 40°V Revision Record (RAT 原理) DUS Established (物定日付) 2016/1/1	Keynight E9900AC28AA KOKUYO KC-847 or equivalent measurement equipment. (ALC 087)
ACM 0952人 MC 1000 HZ 1 VIIII MC 1000 HZ 1 VIIII MC Resistance (at 20°C) 直 書除引 DC 40°V Revision Record (RATT 原理) Date Established (物変 日付 1	Keysight E9900A-258A-KOKI/YO KC-547 or equivalent measurement equipment. (ALC 087) Recyclet.56400A-258A-KOKI/YO KC-547 or equivalent measurement equipment. (ALC 087) Recyclet.56400A-258A-KOKI/YO KC-547 or equivalent measurement equipment. (ALC 087) Recyclet.56400A-258A-KOKI/YO KC-547 or equivalent measurement equipment. (ALC 087) Teminal Const.Texp 10 kΩ min. Teminal Const.Texp 10 kΩ min. (BF - 37FX B)
ACMONEAC (MEMORIAL MEMORIAL	Keynight E9900AC28AA KOKUYO KC-847 or equivalent measurement equipment. (ALC 087)

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.

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