BMC-Q1EY0500M ✔ ACTIVE

Sigma | Sigma BMC-Q

TE Internal #: 1-2176746-8

500 ohm Multilayer Ferrite Bead, 500 mA, .4 ohm DC Resistance, 0402, 1 mm [.039 in] Length, .5 mm [.019 in] Width, .5 mm [.019 in] Height, Sigma BMC-Q

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Passive Components > Inductors > Ferrite Beads > Automotive Grade Multilayer Chip Beads



Package Size Code: **0402**

Impedance: **500 Ω**

Current Rating (Max): **500 mA**

DC Resistance: **.4 Ω**

Product Length: **1 mm [.039 in]**

All Automotive Grade Multilayer Chip Beads (192)

Features

Product Type Features

Shelf Life	1 Year
Package Size Code	0402

Electrical Characteristics

Passive Component Tolerance	25 %
Impedance	500 Ω
Current Rating (Max)	500 mA
DC Resistance	.4 Ω

Dimensions

Product Length	1 mm[.039 in]
Product Width	.5 mm[.019 in]
Product Height	.5 mm[.019 in]

Usage Conditions

Operating Temperature Range	-40 – 125 °C[-40 – 257 °F]

Industry Standards

UL Flammability Rating	UL 94V-0
Industry Standard	AEC-Q200 Compliant
Moisture Sensitivity Level	1

Product Compliance

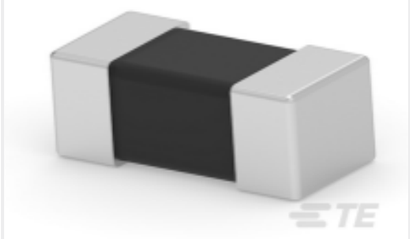
For compliance documentation, visit the product page on TE.com>

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Reflow solder capable to 260°C

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked.Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles'(Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.

Compatible Parts



TE Part # CAT-LV2-B

Automotive Grade Multilayer Chip Beads

Also in the Series | Sigma BMC-Q



Ferrite Beads(192)

Documents

Product Drawings

BMC-Q 0402 500R 25% Tol. UH Current

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-2176746-8_BA.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1-2176746-8_BA.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-2176746-8_BA.3d_stp.zip

English

By downloading the CAD file I accept and agree to the Terms and Conditions of use.

Datasheets & Catalog Pages

Automotive Grade Multilayer Chip Beads Type BMC-Q Series

English