



Schedule of Scope to Certificate of Conformity Approved Component - Capability

IECQ Certificate No.: IECQ-C BSI 22.0001

CB Certificate No.: E767933/CA

Schedule Number: IECQ-C BSI 22.0001-S Rev No.: 1 Revision Date: 2023/04/11 Page 1 of 3

Construction:	Alumina Substrate
Resistors:	Ruthenium based, screen printed, laser trimmed
Conductors:	Gold: 5 multilayer on dielectric, 1 on alumina. Palladium silver: 1 layer on dielectric and alumina
Terminations:	By soldered leadouts, pins through glass seals
Add on Components Types:	Diodes, transistors, integrated circuits, capacitors, resistors in discrete and chip form.
Method of Attachment:	Silver conducting epoxy, solder
Method of Interconnection:	Gold and Aluminium wire bonding, solder
Assessment Category:	Full
Packages and Sealing:	Integral substrate / package maximum area 1522 mm ² Lidseal area 1032 mm ² Maximum number of leads 20 pin SIL, 40 pin DIL Welded hermetic package maximum area 1574 mm ² Maximum number of leads 40 DIL

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Boundaries of Capability:

Resistors:

Range:	4.44 Ω to 4 M Ω
10 Ω / sq decade. Less than 10 Ω	$\pm 0.1 \Omega$
10 Ω – 100 Ω / sq decades. 10 Ω - 100 Ω	$\pm 1.0\%$
100 Ω , 1K Ω , 10K Ω , 100K Ω / decades 100 Ω to 300K Ω	$\pm 0.5\%$
100K Ω , 1M Ω / sq decades. 300K Ω – 2M Ω	$\pm 1.0\%$
1M Ω / sq decade. > 2M Ω	$\pm 5.0\%$
Matching tolerance 13 Ω – 130K Ω	$\pm 0.3\%$
TCR 10Ω / sq decade	$\pm 250 \text{ ppm}/^\circ\text{C}$
TCR 100 Ω , 1K Ω , 10K Ω , 100K Ω / sq decades	$\pm 100 \text{ ppm}/^\circ\text{C}$
TCR 1M Ω / sq decade	$\pm 250 \text{ ppm}/^\circ\text{C}$
TCR tracking 130 Ω – 130K Ω	$\pm 50 \text{ ppm}/^\circ\text{C}$
Stability	1% - 5%
Storage Temperature	- 65 $^\circ\text{C}$ to +150 $^\circ\text{C}$
Operating Range	- 55 $^\circ\text{C}$ to +125 $^\circ\text{C}$ (-40 $^\circ\text{C}$ Add on components)
Substrate Power	6.2 mW/mm ² @ + 70 $^\circ\text{C}$
Screening	Level K, others by agreement with the customer
Customer Participation in Design	Any level by agreement

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BS CECC 63200	Test	Conditions	CQC
4.5.1	Storage at High Temperature	150 °C, 168 hours	6,7
4.5.2	Storage at Low Temperature	- 65 °C, 168 hours	6,7
4.5.3	Damp Heat; Steady State	56 days, 55 °C, 90% RH	6,7
4.5.6	Vibration	78 Hz to 2000 Hz 196 m/s ²	7
4.5.7	Acceleration	5000 g Y1	7
4.5.8	Rapid Change of Temperature	10 cycles 150 °C – 65 °C	6,7
4.5.10	Solderability	235 °C, 2 s	6,7
4.5.11	Resistance to Soldering Heat	350 °C, 3.5 s	6,7
4.5.12	Terminal Robustness	2 bends, 1 direction, 0.5 Kgm	6,7
4.5.14	Endurance	2000 hours @ +125 °C	6,7
4.5.16	Flammability	10s	7

Note: It may not be possible to achieve all the individual limits of capability in combination.

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