



Würth 744772470 alternative

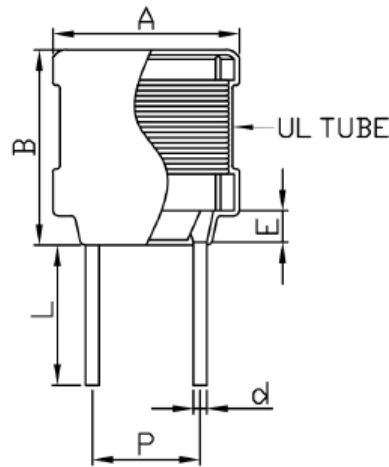


ITEM	DR CHOKE, 47uH+-10%
Part Number	GDR0807CQ1-470KU-L5
ELECTRICAL REQUIREMENTS	INDUCTANCE: 47uH±10% DCR: 0.16Ω MAX. Isat current: 2.55A MAX Irms current: 1.8A (ΔT=40°C typ.) SRF: 9.2MHz TYP.

TEST METHOD:

TEST EQUIPMENT	CH3302 / CH1320
TEST FREQUENCY	100kHz, 0.25V

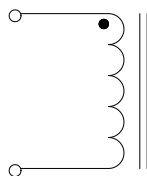
DIMENSION : (UNIT:mm)



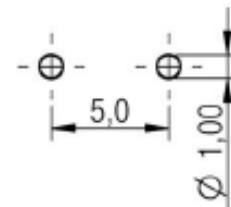
- A= 10.0m/m MAX
- B= 9.00m/m MAX
- d= $\Phi 0.60 \pm 0.05$ m/m
- E= 2.00m/m TYP.
- L= 5.00 ± 1.00 m/m
- P= 5.00 ± 0.50 m/m

Packing: Bulk
300pcs/package

SCHEMATICS:



LAYOUT PATTERN:



FORM NO: QPTE01-F0101

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		2022/01/19	A/0	1



RELIABILITY TEST



1. Operating temperature range
-40 TO + 125°C (Includes temperature when the coil is heated)
2. High temperature exposure(storage) refer MIL-STD-202 Method 108:
1000 hrs at rated operating temperature(e.g. 125°C). Part can be stored for 1000 hrs @125°C.
Unpowered. Measurement at 24±4 hours after test conclusion.
3. Temperature cycling refer JESD22 Method JA-104:
1000 cycles(-40 TO + 125°C). Measurement at 24±4 hours after test conclusion.
30 min maximum dwell time at each temp. extreme. 1 min. maximum transition time.
4. Biased Humidity refer MIL-STD-202 Method 103:
1000 hours 85°C/85%RH. Unpowered. Measurement at 24±4 hours after test conclusion.
5. Operational Life refer MIL-PRF-27:
1000 hrs. at 125 °C tested. Measurement at 24±4 hours after test conclusion.
6. External Visual refer MIL-STD-883 Method 2009:
Inspect device construction, marking and workmanship.
7. Physical Dimension refer JESD22 Method JB-100:
Verify physical dimensions to the applicable device detail specification.
8. Resistance to Solvents refer MIL-STD-202 Method 215:
Add aqueous wash chemical - OKEM clean or equivalent.
9. Mechanical Shock refer MIL-STD-202 Method 213: Figure 1 of Method 213. Condition C.
10. Vibration refer MIL-STD-202 Method 204:
5g's for 20 minutes, 12 cycles each of 3 orientations. Test from 10-2000 Hz.
11. Resistance to soldering Heat refer MIL-STD-202 Method 210:
Condition B No pre-heat of samples. Single wave solder-procedure 2 for SMD
and procedure 1 for leaded with solder within 1.5mm of device body.
12. ESD refer AEC-Q200-002 or ISO/DIS 10605: Direct contact discharge 2kV.
13. Solderability refer J-STD-002: For both Leaded & SMD. Magnification 50X. Conditions:
Leaded, Method A@235°C ,category 3 ;
14. Electrical Characterization refer spec:
Show Min, Max Mean and Standard deviation at room from Min and Max temperature.
15. Flammability refer UL-94: V-0 or V-1 Acceptable.
16. Board Flex refer AEC-Q200-005: 60 sec minimum holding time.
17. Terminal Strength(Leaded) refer MIL-STD-202 Method 211(SDM):
Test leaded device lead integrity only. Conditions: A(910g), C(1.13kg), E(1.45kg-mm)
18. Storage environment
Storage condition: Temperature Range: 0°C ~ 35°C ; -40°C ~ 125°C (after PCB)
Humidity Range: 50% ~ 70% RH

Use components within 12 months. If 12 months or more have elapsed, check solderability before use.

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FORM NO: QPTE01-F0101

BEC DISTRIBUTION LIMITED	FILE NO.	DATE	REV.	PAGE
		2022/01/19	A/0	2

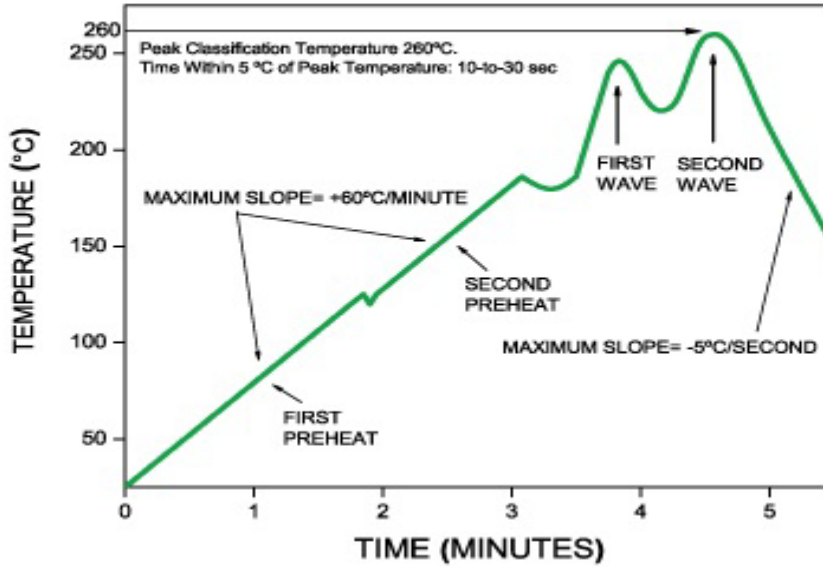


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WAVE SOLDERING:

Typical Pb-free Wave Soldering Temperature Profile



FORM NO: QPTE01-F0101

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BEC DISTRIBUTION LIMITED	FILE NO.	DATE	REV.	PAGE
		2022/01/19	A/0	3