

**PIT 23013AQ1 TYPE**

● FEATURE

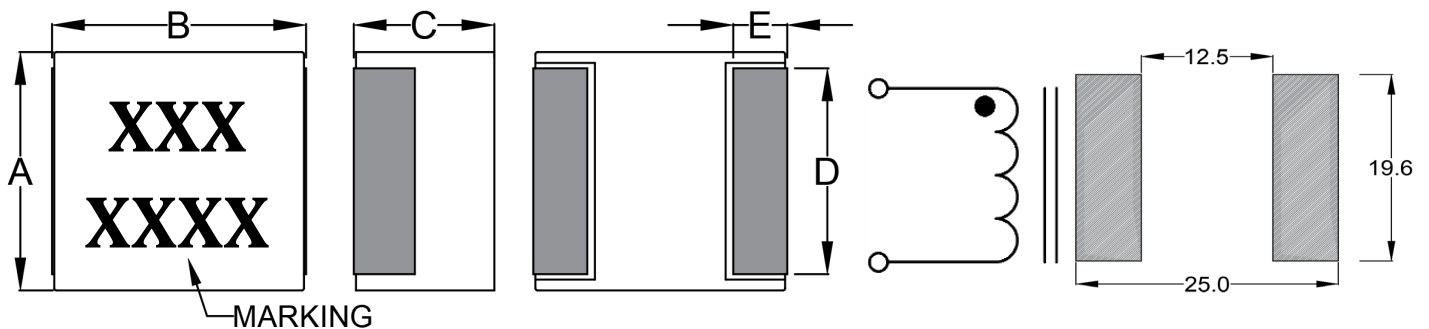
1. Shielded construction
2. AEC-Q200 Qualified

● Applications

1. Equipment used for automotive

● Shape and Dimension

● Schematics and Land Patterns(mm)



A=22.0±0.3mm ; B=23.5±0.5mm ; C=13.0mm Max. ; D=19.0±0.3mm ; E=5.0±0.4mm ;

● Specification

P/N	L (μH)	RDC (mΩ) Max.	Isat(A)		Irms(A)	
			Max.	Typ.	Max.	Typ.
PIT23013AQ1-1R0M	1.0±20%	0.95	54.0	60.0	65.0	70.0
PIT23013AQ1-1R5M	1.5±20%	1.15	48.0	52.0	57.0	62.0
PIT23013AQ1-2R2M	2.2±20%	1.25	43.0	48.0	52.0	58.0
PIT23013AQ1-3R3M	3.3±20%	1.75	37.0	41.0	47.0	49.0
PIT23013AQ1-4R7M	4.7±20%	2.20	34.0	38.0	44.0	47.0
PIT23013AQ1-6R8M	6.8±20%	3.10	32.0	36.0	36.0	40.0
PIT23013AQ1-8R2M	8.2±20%	3.80	31.0	27.0	35.0	32.0
PIT23013AQ1-100M	10±20%	4.15	20.0	28.0	30.0	33.0
PIT23013AQ1-150M	15±20%	6.12	18.0	23.0	23.0	26.0
PIT23013AQ1-220M	22±20%	11.0	14.0	15.0	18.0	22.0
PIT23013AQ1-230M	23±20%	11.0	14.0	15.0	18.0	22.0
PIT23013AQ1-330M	33±20%	15.4	10.5	12.0	16.0	19.0
PIT23013AQ1-470M	47±20%	20.8	10.0	12.0	14.0	17.0
PIT23013AQ1-680M	68±20%	29.5	9.00	12.0	12.0	14.0
PIT23013AQ1-750M	75±20%	31.6	8.50	10.5	11.0	13.0
PIT23013AQ1-820M	82±20%	34.2	7.70	9.0	10.0	12.0
PIT23013AQ1-101M	100±20%	40.0	7.50	9.0	9.5	11.0

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Note1. Measurement frequency of Inductance value : at 100KHz, 1.0V

Note2. Measurement ambient temperature of L, DCR and IDC : at 25°C

Note3. Isat: DC current at which the inductance drops 30%(Typ.) from its value without current

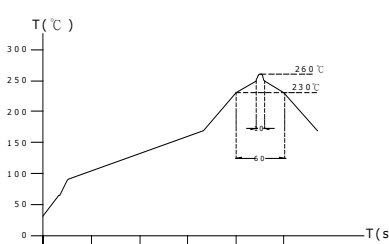
Note4. Irms: Average current for 40°C temperature rise from 25°C ambient(Typ.)

Note5. Packaging: Taping ; Quantity:80 pcs/reel

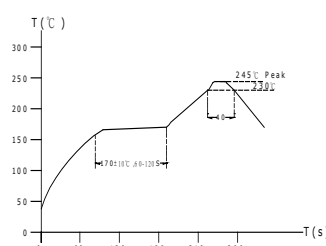
**GENERAL CHARACTERISTICS**

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 @150°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 ; SMD, a)Method B, 4hrs@125°C dry heat @235°C, b)Method B@215°C category 3., c)Method D category 3@260°C
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(SMD) refer AEC-Q200-006
18. Reflow profile recommend:

Lead-free heat endurance test



Lead-free the recommended reflow condition

*You, enjoy summer*