

CDRH124NP-8R2MC Datasheet




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| | |
|------------------------------|---|
| DiGi Electronics Part Number | CDRH124NP-8R2MC-DG |
| Manufacturer | Sumida America Components Inc. |
| Manufacturer Product Number | CDRH124NP-8R2MC |
| Description | FIXED IND 8.2UH 4.6A 26 MOHM SMD |
| Detailed Description | 8.2 μ H Shielded Inductor 4.6 A 26mOhm Max Nons standard |

This model CDRH124NP-8R2MC is available at DiGi Electronics.

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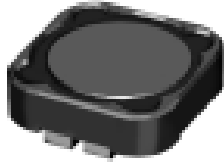
Purchase and inquiry

| | |
|---|--------------------------------|
| Manufacturer Product Number: | Manufacturer: |
| CDRH124NP-8R2MC | Sumida America Components Inc. |
| Series: | Product Status: |
| CDRH124 | Active |
| Type: | Material - Core: |
| - | Ferrite |
| Inductance: | Tolerance: |
| 8.2 μ H | \pm 20% |
| Current Rating (Amps): | Current - Saturation (Isat): |
| 4.6 A | - |
| Shielding: | DC Resistance (DCR): |
| Shielded | 26mOhm Max |
| Q @ Freq: | Frequency - Self Resonant: |
| - | - |
| Ratings: | Operating Temperature: |
| - | -40°C ~ 100°C |
| Inductance Frequency - Test: | Mounting Type: |
| 100 kHz | Surface Mount |
| Package / Case: | Supplier Device Package: |
| Nonstandard | - |
| Size / Dimension: | Height - Seated (Max): |
| 0.472" L x 0.472" W (12.00mm x 12.00mm) | 0.177" (4.50mm) |

Environmental & Export classification

| | |
|-----------------|-----------------------------------|
| RoHS Status: | Moisture Sensitivity Level (MSL): |
| ROHS3 Compliant | 1 (Unlimited) |
| ECCN: | HTSUS: |
| EAR99 | 8504.50.4000 |

SMD Power Inductor CDRH124



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 12.3 × 12.3 × 4.5 mm Max.
- Product weight: 2.3g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

- Operating temperature range: -40°C ~ +100°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +100°C
- Solder reflow temperature: 260 °C peak.

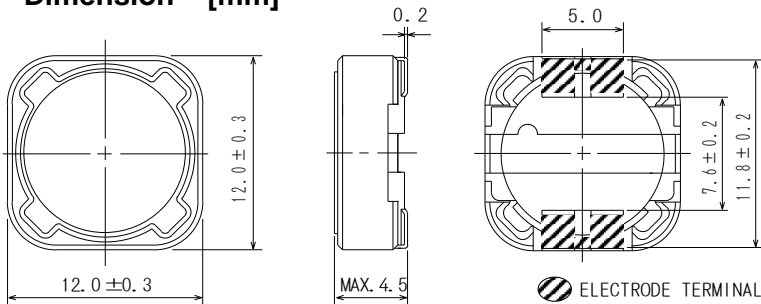
Packaging

- Carrier tape and reel packaging
- 13" diameter reel
- 500pcs per reel

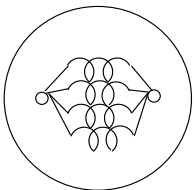
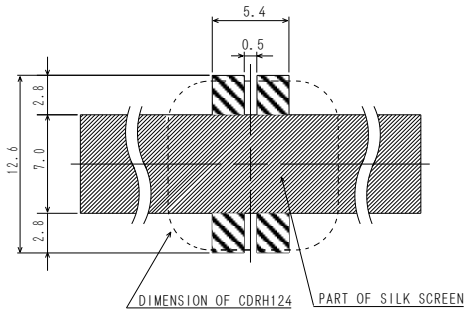
Applications

- Ideally used in Notebook PC, LCD TV, DVD, Game machine, STB, Projector etc as DC-DC converter inductors.

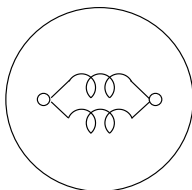
Dimension - [mm]



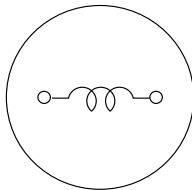
Land pattern and Schematics - [mm]



3.9µH~10µH



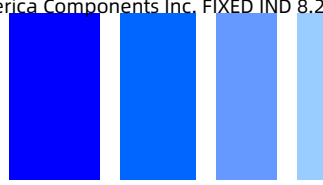
12µH~47µH,
68µH,82µH



56µH,
100µH~330µH

SMD Power Inductor

CDRH124



Electrical Characteristics

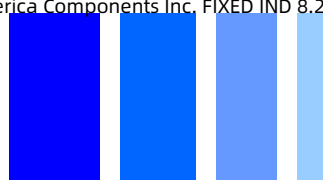
| PART NO. | STAMP | INDUCTANCE [WITHIN] ※1 | D.C.R. (mΩ) (at 20°C) MAX.(TYP.) | SATURATION CURRENT (A)※2 MAX.(TYP.) | TEMPERATURE RISE CURRENT (A)※3 |
|-----------------|-------|------------------------------|---|--|--------------------------------------|
| CDRH124NP-3R9MC | 3R9 | 3.9μH ± 20% | 15(12) | 8.60(10.80) | 7.30 |
| CDRH124NP-4R7MC | 4R7 | 4.7μH ± 20% | 18(14) | 7.75(9.70) | 6.60 |
| CDRH124NP-6R8MC | 6R8 | 6.8μH ± 20% | 23(18) | 6.40(8.00) | 5.90 |
| CDRH124NP-8R2MC | 8R2 | 8.2μH ± 20% | 26(21) | 6.32(7.90) | 5.40 |
| CDRH124NP-100MC | 100 | 10 μH ± 20% | 28(22) | 5.60(7.00) | 5.05 |
| CDRH124NP-120MC | 120 | 12 μH ± 20% | 38(30) | 4.96(6.20) | 4.55 |
| CDRH124NP-150MC | 150 | 15 μH ± 20% | 50(40) | 4.32(5.40) | 3.80 |
| CDRH124NP-180MC | 180 | 18 μH ± 20% | 57(46) | 3.96(4.95) | 3.72 |
| CDRH124NP-220MC | 220 | 22 μH ± 20% | 66(53) | 3.80(4.75) | 3.52 |
| CDRH124NP-270MC | 270 | 27 μH ± 20% | 80(64) | 3.08(3.85) | 3.30 |
| CDRH124NP-330MC | 330 | 33 μH ± 20% | 97(78) | 2.96(3.70) | 3.10 |
| CDRH124NP-390MC | 390 | 39 μH ± 20% | 132(106) | 2.66(3.32) | 2.55 |
| CDRH124NP-470MC | 470 | 47 μH ± 20% | 150(120) | 2.56(3.20) | 2.28 |
| CDRH124NP-560MC | 560 | 56 μH ± 20% | 190(152) | 2.36(2.95) | 2.10 |
| CDRH124NP-680MC | 680 | 68 μH ± 20% | 220(176) | 2.14(2.67) | 1.80 |
| CDRH124NP-820MC | 820 | 82 μH ± 20% | 260(208) | 1.90(2.37) | 1.55 |
| CDRH124NP-101MC | 101 | 100μH ± 20% | 308(246) | 1.66(2.07) | 1.40 |
| CDRH124NP-121MC | 121 | 120μH ± 20% | 380(304) | 1.52(1.90) | 1.32 |
| CDRH124NP-151MC | 151 | 150μH ± 20% | 530(424) | 1.42(1.77) | 1.20 |
| CDRH124NP-181MC | 181 | 180μH ± 20% | 620(496) | 1.33(1.66) | 1.06 |
| CDRH124NP-221MC | 221 | 220μH ± 20% | 700(560) | 1.18(1.48) | 0.93 |
| CDRH124NP-271MC | 271 | 270μH ± 20% | 870(696) | 0.98(1.23) | 0.76 |
| CDRH124NP-331MC | 331 | 330μH ± 20% | 990(792) | 0.90(1.13) | 0.65 |

※1 Measured frequency L at 100 kHz

※2 Saturation current: This indicates the value of D.C. current when the inductance becomes 25% lower than it's initial value. (Ta=20°C).

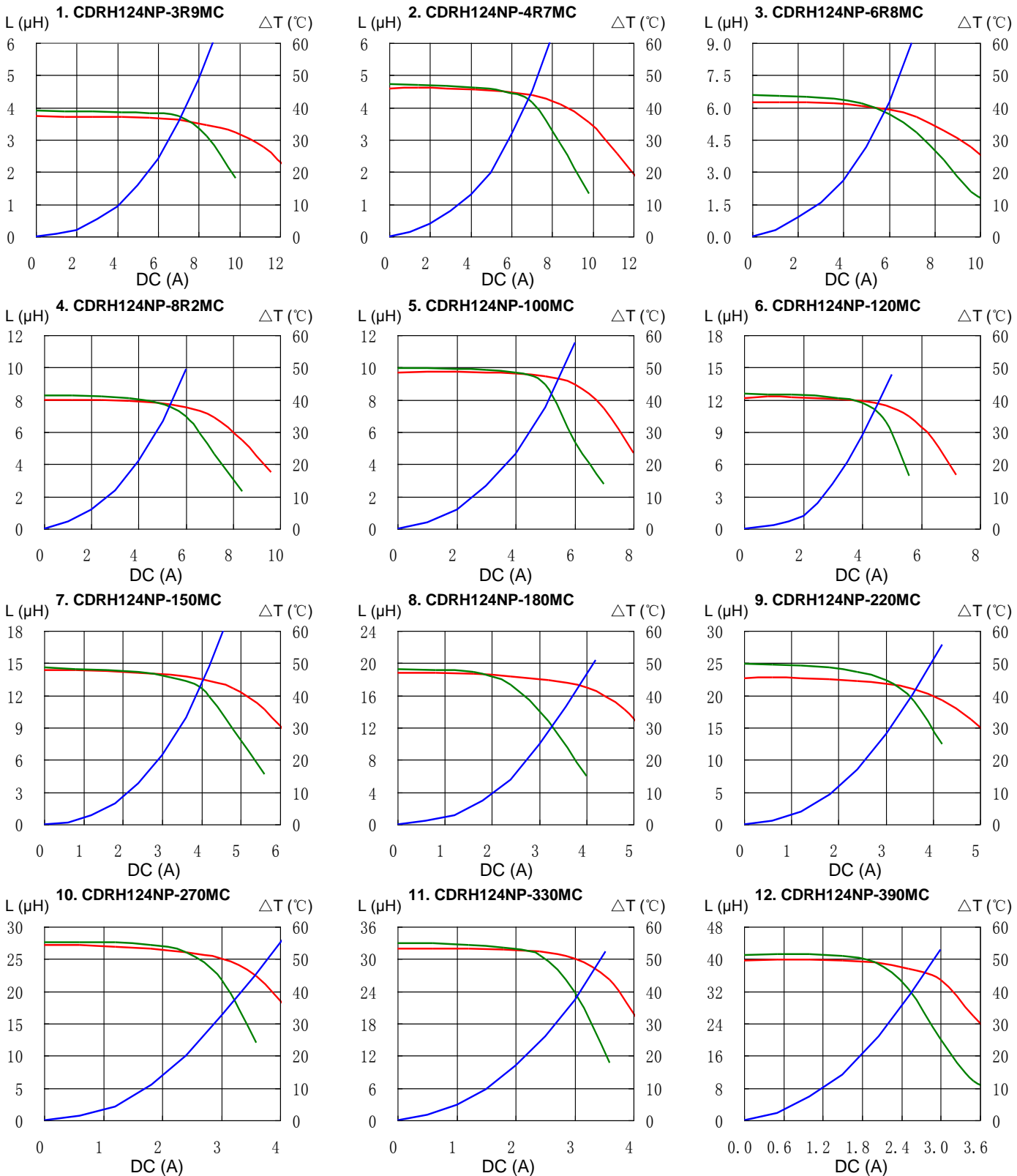
※3 Temperature rise current :The actual value of D.C. current when the temperature of coil becomes $\Delta T=40^\circ\text{C}$ (Ta=20°C).

SMD Power Inductor CDRH124

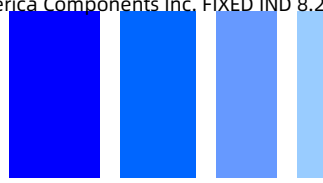


Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

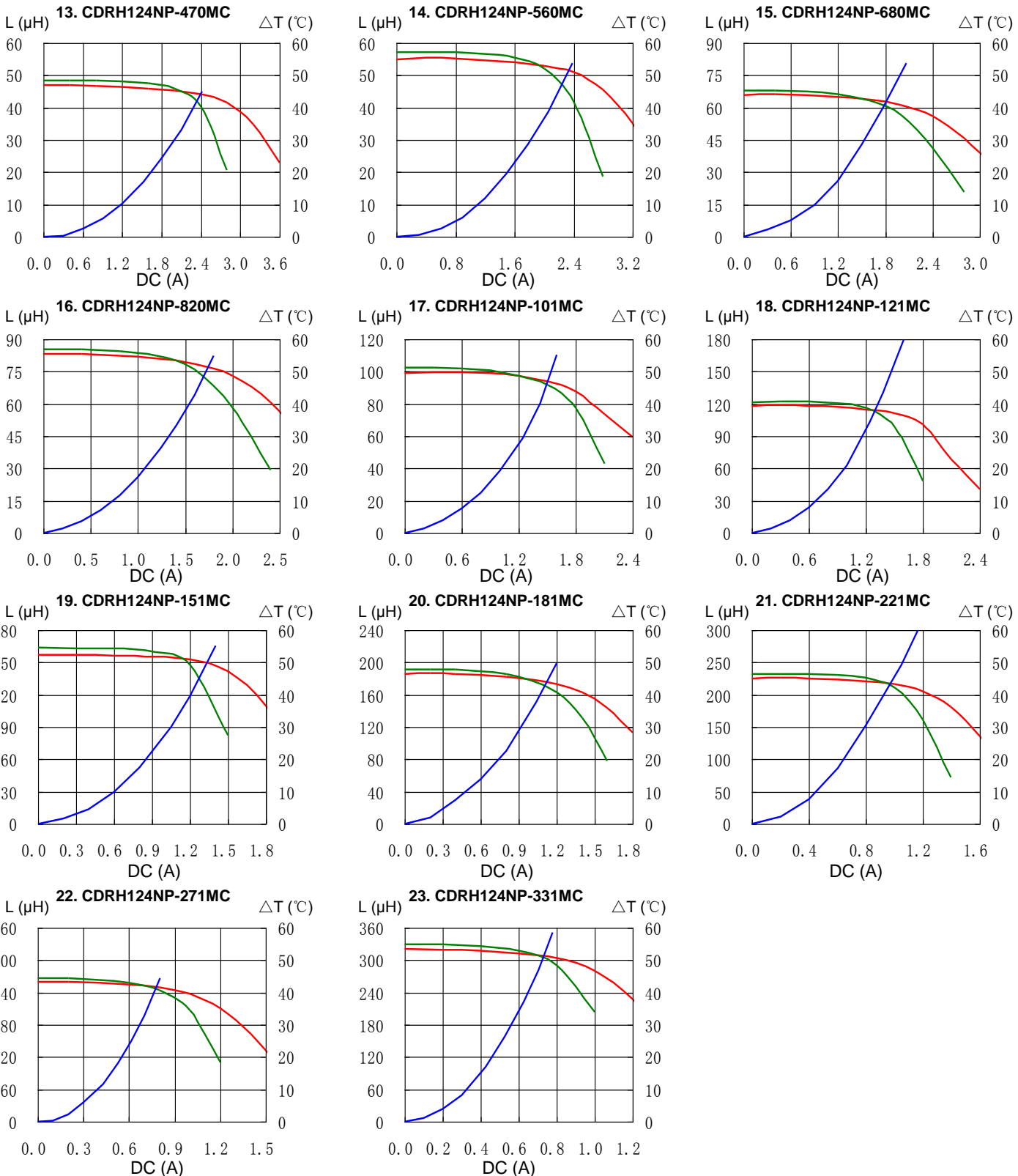


SMD Power Inductor CDRH124



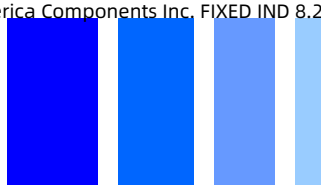
Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT



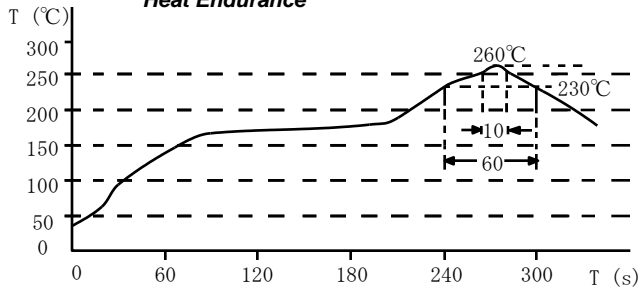
SMD Power Inductor

CDRH124

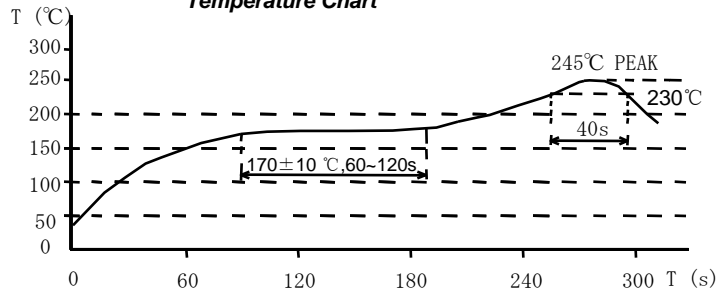


Solder Reflow Condition

Heat Endurance



Temperature Chart



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