

Assembled SMD Power Inductor MVR100612S-R33LT

FEATURES

- Ferrite SMD Shielded Type
- Surface mount inductors designed for high speed, high current switch mode Surface mount inductors designed for high speed, high current switch mode applications requiring lower inductance
- Gapped ferrite cores for maximum efficiency Customized specifications are available
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APPLICATIONS

- Voltage regulator modules (VRMs) for servers, microprocessor
- High frequency, high current switching power supplies

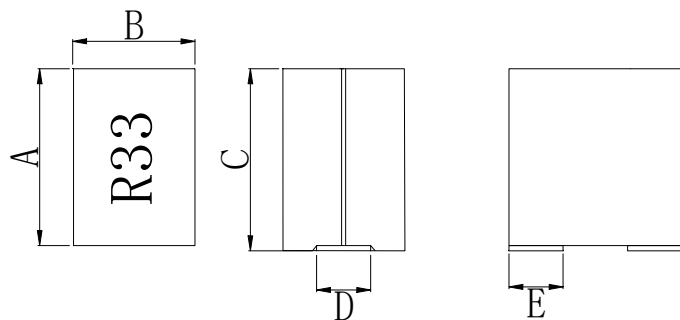
Explanation of Part Number

MVR 100612 S-R33 L T

1 2 3 4 5 6

- ◆ 1:Product Series:Assembled SMD Power Inductor
- ◆ 2:Dimensions:
- ◆ 3: Material Code : Low Loss
- ◆ 4:Nominal Inductance:1R0==>1.0uH
- ◆ 5:Inductance Tolerance:L±15%
- ◆ 6:Packing :Tape & Reel

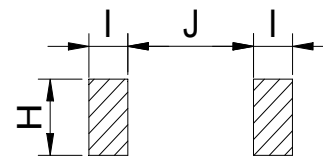
Dimensions: [mm]



Marking: "R33"

A	B	C	D	E
10.0Max	6.0Max	12.0Max	2.5Ref	3.1Ref

PAD LAYOUT UNIT: mm



H	I	J
3.3	3.2	3.9

Electrical Characteristics List

Part No.	Inductance (nH)	DCR (mΩ)	Isat (A) Typ	Irms (A) Typ
MVR100612S-R33LT	330±15%	0.125±10%	40.0	77.0
	100KHz/1V		L Drops 30%	$\Delta T \leq 40^{\circ}\text{C}$
	6630	CH-16502	CH3302+CH1320	CH3302+CH1320

NOTE:

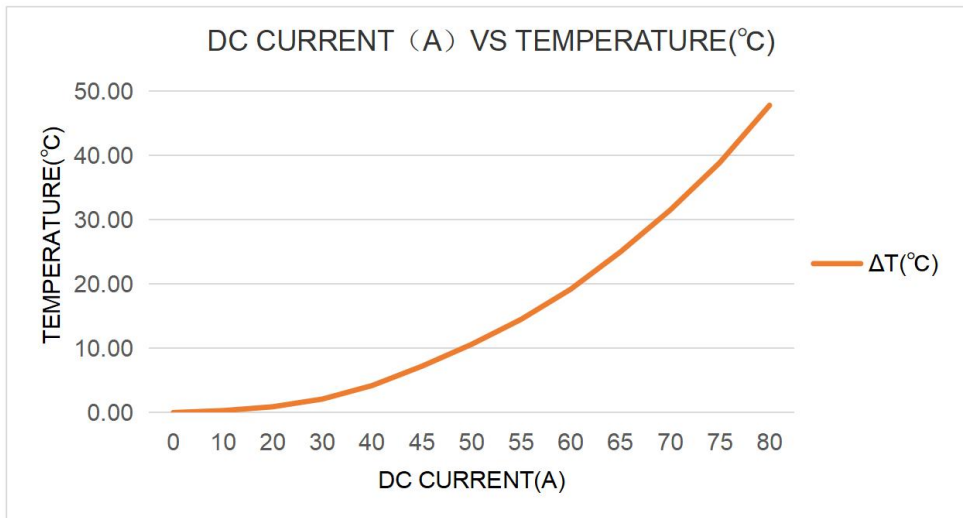
Operating temperature: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$ (Including self - temperature rise)

Storage temperature: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$ (on board)

Storage environment: temperature: $0^{\circ}\text{C} \sim +40^{\circ}\text{C}$ humidity: RH10%~70%

Safe storage life: 12 months

Curve



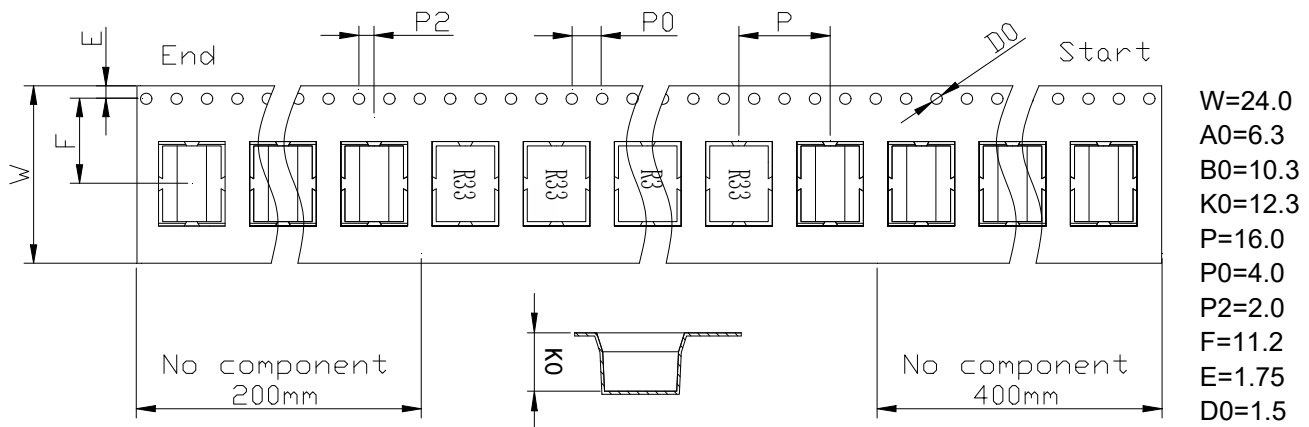
(A)	0.00	10.00	20.0	30.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0
$\Delta T(^{\circ}\text{C})$	0.00	0.30	0.90	2.10	4.20	7.20	10.6	14.5	19.2	25.0	31.5	38.9	47.8

TEST DATA FOR PREPRODUCTION SAMPLES

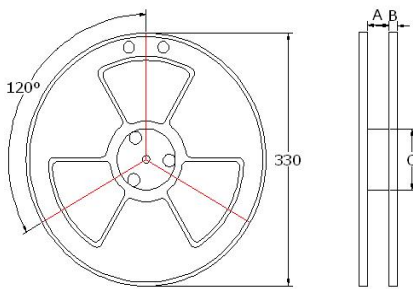
MEAS. Item	Inductance (nH)	DCR (mΩ)			A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
Spec	330±15%	0.125±10%			10.0Max	6.0Max	12.0Max	2.5Ref	3.1Ref
Test Freq.	100KHz/1V								
1	325	0.121			9.74	5.88	11.73	2.49	3.23
2	322	0.123			9.77	5.85	11.85	2.48	3.25
3	321	0.124			9.74	5.83	11.82	2.53	3.25
4	315	0.125			9.73	5.84	11.74	2.52	3.25
5	315	0.123			9.73	5.86	11.84	2.51	3.28
6	311	0.123			9.75	5.84	11.82	2.52	3.31
7	321	0.125			9.76	5.83	11.76	2.53	3.25
8	325	0.124			9.78	5.86	11.86	2.49	3.25
9	319	0.123			9.77	5.85	11.88	2.50	3.24
10	317	0.125			9.77	5.85	11.87	2.48	3.24
X	319	0.124			9.75	5.85	11.82	2.51	3.26
R	14.0	0.004			0.05	0.05	0.15	0.05	0.08

Packing

Carrier Tape (Unit:mm)



Reel (Unit:mm)



A=24.5
B=2.3
C=100

QTY

Reel(Pcs) 270

Recommended Soldering Conditions

Figure 1. Re-flow Soldering

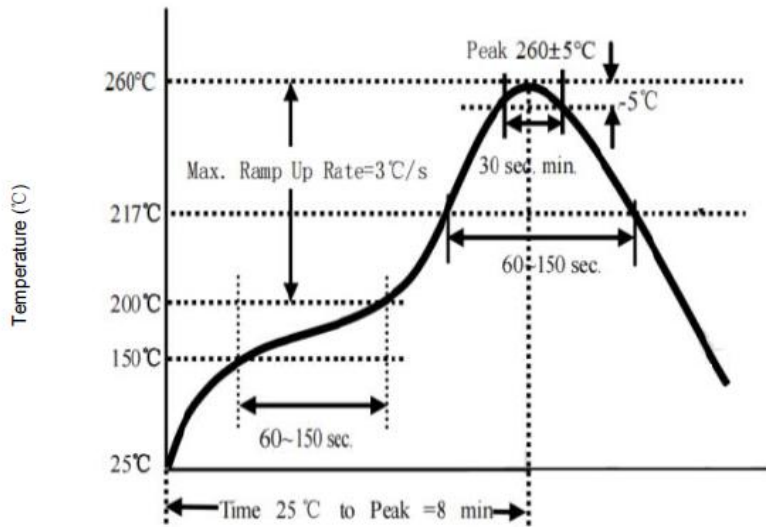


Figure 2. Hand Soldering

