



Features

- High temperature ferrite core
- Magnetically shielded
- High rated current
- Extremely low DC Resistance

General Specifications

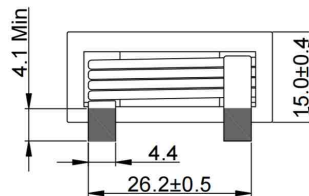
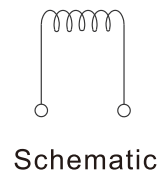
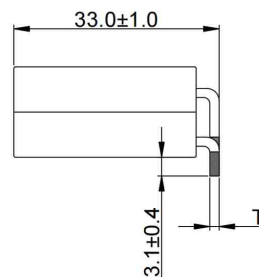
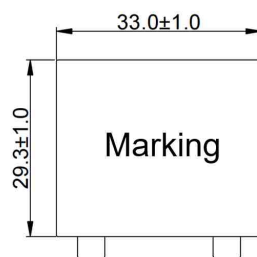
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C

Applications

- Energy storage chokes for
- Buck/boost choke for 48 V boardnet converter
- DC-DC converters



Shape and Dimensions (Unit:mm)



T: ER33-102K 1.5mm
 ER33-322K 1.5mm
 ER33-222K 1.25mm
 ER33-352K~103K 1.25mm

Electrical Characteristics For ER33 Series @ 25°C

Part Number	Inductance (μH)	DCR (mΩ)		SRF (MHz) Typical	Isat (A) Typ.			Irms (A) Max.	
		Typ.	Max.		10% drop	20% drop	30% drop	20°C rise	40°C rise
ER33-102K	1.0 ±10%	0.76	0.85	39	222	230	232	58	72
ER33-222K	2.2 ±10%	1.11	1.2	23	141	148	149	46	59
ER33-322K	3.2 ±10%	0.76	0.85	18	95	112	114	58	72
ER33-352K	3.5 ±10%	1.11	1.2	17	81	87	88	46	59
ER33-472K	4.7 ±10%	1.11	1.2	16	77	81	82.8	46	59
ER33-502K	5.0 ±10%	1.11	1.2	15	73	78	79.2	46	59
ER33-562K	5.6 ±10%	1.11	1.2	14	59	63	63.5	46	59
ER33-602K	6.0 ±10%	1.11	1.2	12.5	58	62	62.8	46	59
ER33-682K	6.8 ±10%	1.11	1.2	12	51	56	57	46	59
ER33-822K	8.2 ±10%	1.11	1.2	10	39	43	44	46	59
ER33-103K	10 ±10%	1.11	1.2	9	32	36	37	46	59

- Inductance test frequency: 100kHz
- Isat: DC current at 25°C that causes the specified inductance drop from its value without current.
- Irms: Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings.