



CL5222213 series

Features:

- Large Current and Low DCR.
- Magnetically shielded construction.
- High frequency range up to 3.0 MHz.
- RoHS compliant* and halogen free.
- Low noise.
- Operating temperature range: -55°C TO +125°C

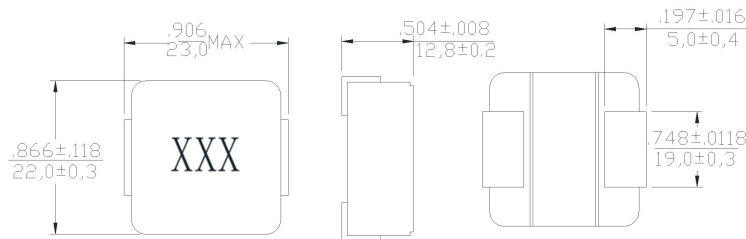
Applications:

- Voltage Regulator Module (VRM)
- Multi-phase regulators
- Point-of-load modules
- Desktop and server VRMs and EVRDs
- Data networking and storage systems
- Base station equipment
- Battery power systems

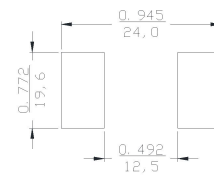
Product identification:



Dimensions (unit:inch/ mm):



Recommended Layout: [unit: inch/ mm]



Electrical Specifications @ 25°C

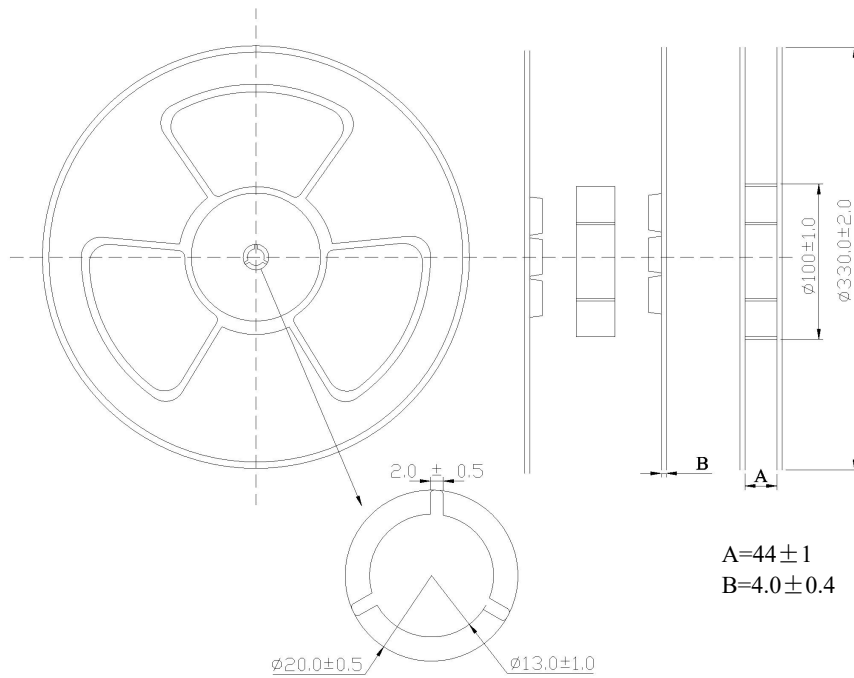
P/N	100KHz /1.0V	D.C.R (mΩ)		Heat Rating Current	Saturation Current
	L0(μH) ±20% '@0A	Typical	Max	Idc (Amp) Typical	Isat (Amp) Typical
CL52222131R0M1	1.0	0.7	0.8	50	70
CL52222132R2M1	2.2	1.1	1.3	42.5	48
CL52222133R3M1	3.3	1.6	1.77	34	41
CL52222134R7M1	4.7	1.9	2.2	37	38
CL52222136R8M1	6.8	2.7	3.1	35	36
CL5222213100M1	10	3.8	4.2	30	28
CL5222213150M1	15	4.9	6.0	17	24
CL5222213220M1	22	9.2	11	20	15
CL5222213330M1	33	13.5	15.4	18	12
CL5222213470M1	47	15.2	17.7	10	15
CL5222213680M1	68	26.5	29.5	14	12
CL5222213820M1	82	31	35	10	9
CL5222213101M1	100	36	40	6.4	8

Note:

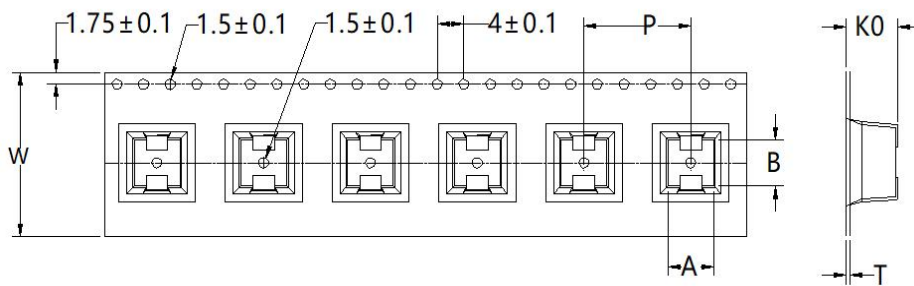
- All test date is referenced to 25°C ambient.
- DC current(Idc) that will cause an approximate ΔT of 40°C.
- DC current(last) that will cause Lo to drop approximately 30%.
- Operating temperature range:-55°C to +125°C.
- The part temperature (ambient + temp rise) should not exceed125°C under the worst operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Packaging

1) Reel dimensions

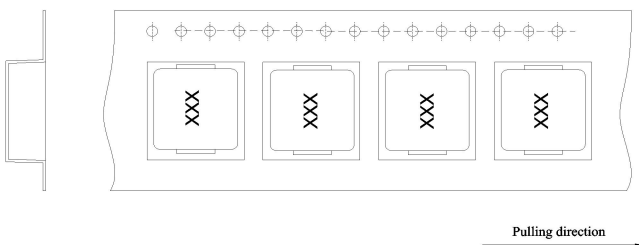


2) Tape packaging dimensions

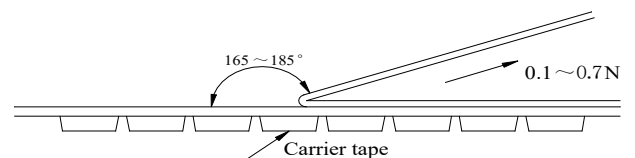


Dimensions Code (mm)					
A	B	W	P	T	K0
22.6 ± 0.1	23.1 ± 0.1	44 ± 0.3	32 ± 0.1	0.5 ± 0.05	14 ± 0.3

3) Tape Direction



4) Peel force of top cover tape



The peel speed shall be about 300 mm/minute
 The peel force of top cover tape shall be between 0.1 to 1.3N

Numbers of taping: 100 pieces / reel.

Reminders

Please pay sufficient attention to the warnings for safe designing when using these products.

- ※ The storage period is less than 12 months. Be sure to follow the storage conditions (Temperature: 5 to 40°C Humidity: 10 to 75% RH or less).
If the storage period elapses, the soldering of the terminal electrodes may deteriorate.
- ※ Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).
- ※ Before soldering, be sure to preheat components.
The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C.
- ※ Soldering corrections after mounting should be within the range of the conditions determined in the specifications.
If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.
- ※ Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- ※ Do not expose the products to magnets or magnetic fields.
Do not use for a purpose outside of the contents regulated in the delivery specifications.