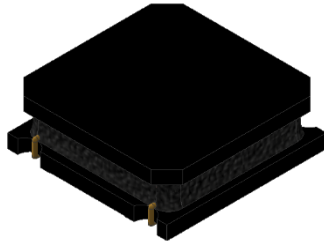
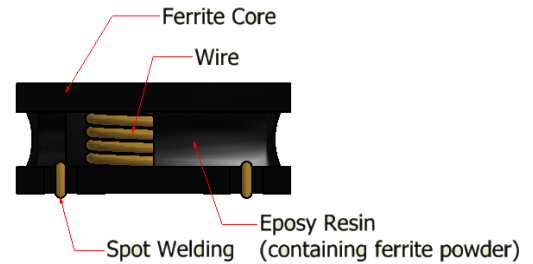


FNR30series



CONSTRUCTION



FEATURES

Magnetically structure
Low DC resistance
Large Current Capability

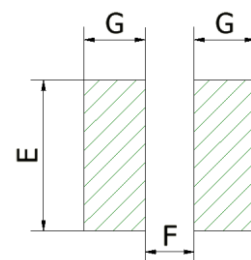
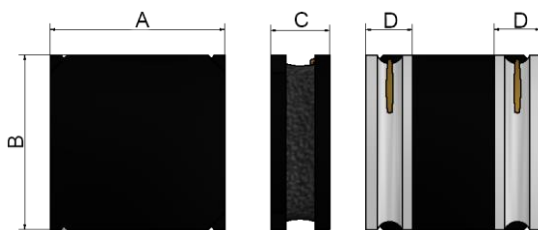
APPLICATIONS

Hard Disk Drives
Car audio equipment
Tablet PC
Navigation system
SSD
Touch Panel

SPECIFICATIONS

Operating temperature range	-40 to +125°C
Storage temperature range	Under 25°C
Packaging style	Taping
Quantities	2,000 pieces/reel

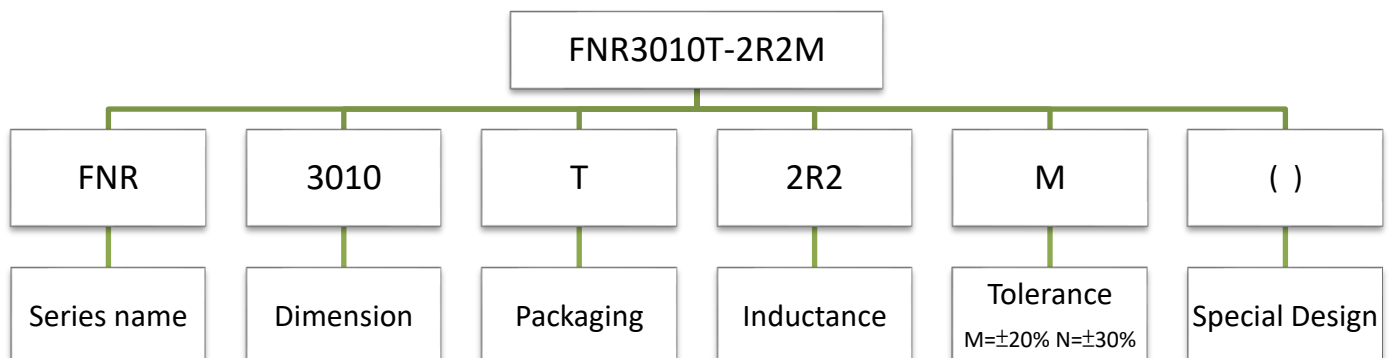
SHAPE AND DIMENSIONS



(Unit: mm)

TYPE	A	B	C	D	E	F	G
FNR3010	3.0±0.1	3.0±0.1	1.0max	0.9±0.2	3.2	1	1.1
FNR3012	3.0±0.1	3.0±0.1	1.2max	0.9±0.2	3.2	1	1.1
FNR3015	3.0±0.1	3.0±0.1	1.5±0.2	0.9±0.2	3.2	1	1.1

PRODUCT IDENTIFICATION (ex.)



ELECTRICAL CHARACTERISTICS

Part No.	Inductance (uH)	Inductance tolerance	Test Frequency (kHz)	DC Resistance (Ω) ±20%	Saturation current Isat(mA)		Temperature rise current Irms(mA)	
					Typ.	Max.	Typ.	Max.
FNR3010T-1R0N	1.0	±30%	100	0.065	1700	1,300	1800	1,400
FNR3010T-1R5N	1.5	±30%	100	0.080	1500	1,200	1650	1,300
FNR3010T-2R2M	2.2	±20%	100	0.110	1400	1,100	1500	1,100
FNR3010T-3R3M	3.3	±20%	100	0.140	1050	870	1200	940
FNR3010T-4R7M	4.7	±20%	100	0.190	950	850	1050	780
FNR3010T-6R8M	6.8	±20%	100	0.300	750	690	920	630
FNR3010T-100M	10	±20%	100	0.450	650	580	780	510
FNR3010T-150M	15	±20%	100	0.740	520	400	600	400
FNR3010T-220M	22	±20%	100	0.770	440	350	510	350
FNR3010T-330M	33	±20%	100	1.550	330	260	420	275
FNR3010T-470M	47	±20%	100	1.470	290	220	370	235

Part No.	Inductance (uH)	Inductance tolerance	Test Frequency (kHz)	DC Resistance (Ω) ±20%	Saturation current Isat(mA)		Temperature rise current Irms(mA)	
					Typ.	Max.	Typ.	Max.
FNR3012T-1R0N	1.0	±30%	100	0.056	2200	1500	1700	1490
FNR3012T-1R5N	1.5	±30%	100	0.060	1700	1360	1690	1400
FNR3012T-2R2M	2.2	±20%	100	0.080	1500	1100	1350	1200
FNR3012T-3R3M	3.3	±20%	100	0.100	1200	910	1190	1050
FNR3012T-4R7M	4.7	±20%	100	0.160	1000	890	1000	980
FNR3012T-6R8M	6.8	±20%	100	0.235	850	700	840	740
FNR3012T-100M	10	±20%	100	0.290	730	650	720	630
FNR3012T-150M	15	±20%	100	0.450	610	500	610	510
FNR3012T-220M	22	±20%	100	0.630	550	450	550	440
FNR3012T-330M	33	±20%	100	1.030	460	310	460	300
FNR3012T-470M	47	±20%	100	1.450	350	270	350	260

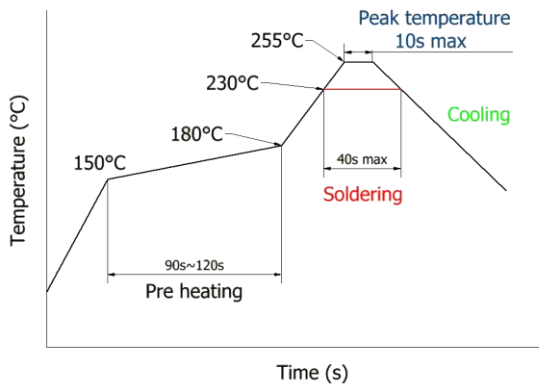
Part No.	Inductance (uH)	Inductance tolerance	Test Frequency (kHz)	DC Resistance (Ω) ±20%	Saturation current Isat(mA)		Temperature rise current Irms(mA)	
					Typ.	Max.	Typ.	Max.
FNR3015T-1R0N	1.0	±30%	100	0.030	2350	2100	2350	2100
FNR3015T-1R5N	1.5	±30%	100	0.040	2100	1800	2100	1820
FNR3015T-2R2M	2.2	±20%	100	0.060	1750	1480	1800	1500
FNR3015T-3R3M	3.3	±20%	100	0.080	1400	1210	1500	1230
FNR3015T-4R7M	4.7	±20%	100	0.120	1100	1020	1300	1040
FNR3015T-6R8M	6.8	±20%	100	0.160	930	870	1100	880
FNR3015T-100M	10	±20%	100	0.230	750	700	840	710
FNR3015T-150M	15	±20%	100	0.360	670	560	740	560
FNR3015T-220M	22	±20%	100	0.520	550	470	520	470
FNR3015T-330M	33	±20%	100	0.840	440	390	440	370
FNR3015T-470M	47	±20%	100	1.340	380	320	360	300

*The saturation current value (Isat) is the DC current value having inductance decrease down to 30% (at 25°C)

*The temperature rise current value (Irms)is the DC current value having temperature increase up to 40°C (at 25°C)

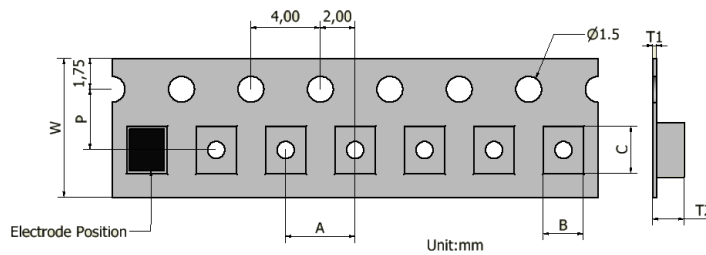
*Rated current: smaller value of either Isat or Irms.

RECOMMENDED SOLDERING CONDITIONS



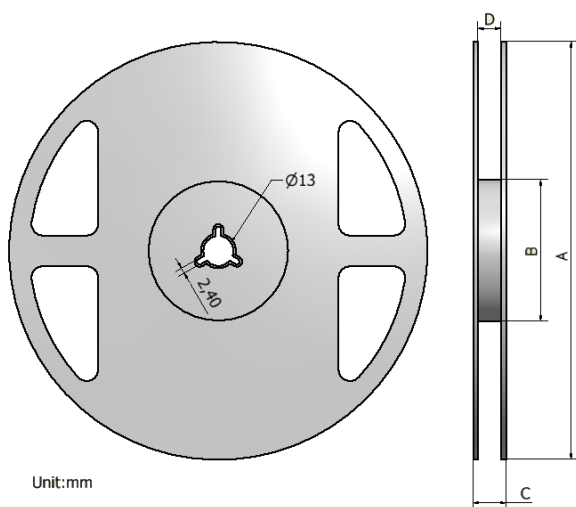
PACKAGE

(1) Taping specifications



Type	W	P	A	B	C	T1	T2
FNR3010	8	3.5	4.0	3.2	3.2	0.3	1.4
FNR3012	8	3.5	4.0	3.2	3.2	0.3	1.6
FNR3015	8	3.5	4.0	3.2	3.2	0.3	1.9

(2) Reel Specifications



Label

Wire Wound Power Inductors
 FNR30□□T-□□□M/N
 □□□□PCS
 Lot No. _____
 FUMIWA TECHNIAL CO., LTD.

Type	A	B	C	D	Q'ty/Reel
FNR3010	180±0.1	60±0.1	14.5±0.1	10±0.15	2000
FNR3012	180±0.1	60±0.1	14.5±0.1	10±0.15	2000
FNR3015	180±0.1	60±0.1	14.5±0.1	10±0.15	2000

Type	Q'ty
PCS/Reel	2000
Reel/inner Box	10000
Inner Box/Carton	50000