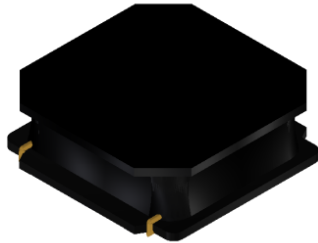
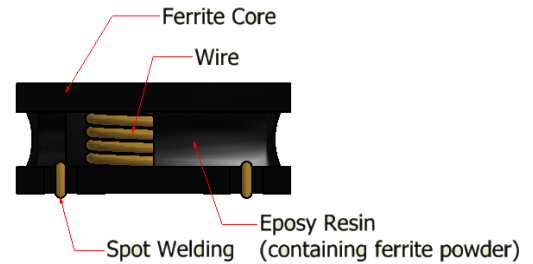


FNR20series



CONSTRUCTION



FEATURES

Magnetically structure
Low DC resistance
Large Current Capability

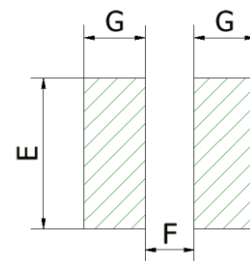
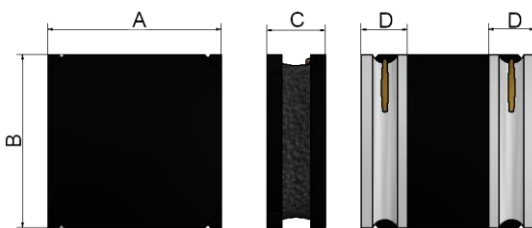
APPLICATIONS

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	2,500 pieces/reel

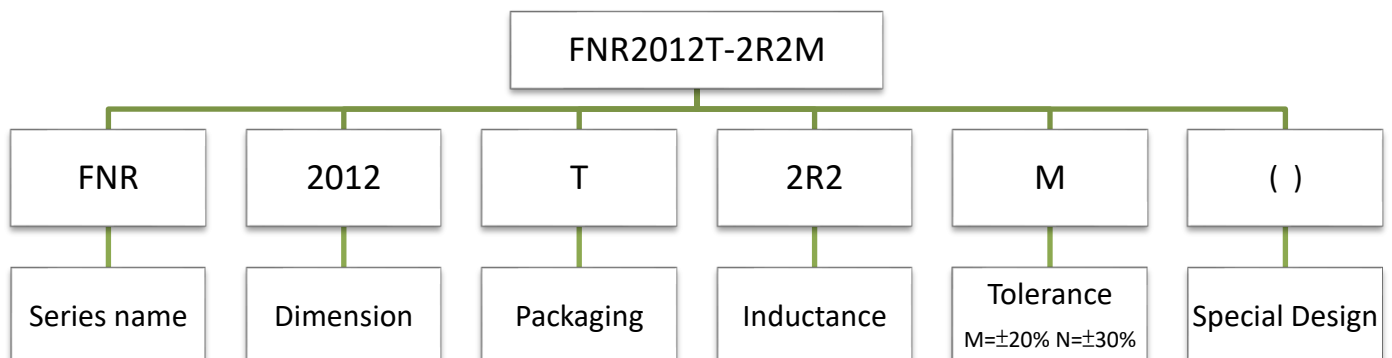
SHAPE AND DIMENSIONS



(Unit: mm)

TYPE	A	B	C	D	E	F	G
FNR2010	2.0±0.1	2.0±0.1	1.0max	0.5±0.2	2.1	0.7	0.65
FNR2012	2.0±0.1	2.0±0.1	1.2max	0.5±0.2	2.1	0.7	0.65

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.
FNR2010T-1R0	1.0	±30%	100	0.082	1710	1560	1860	1610
FNR2010T-1R5	1.5	±30%	100	0.102	1460	1360	1660	1460
FNR2010T-2R2	2.2	±20%	100	0.177	1250	1120	1250	1120
FNR2010T-3R3	3.3	±20%	100	0.250	970	890	1150	1050
FNR2010T-4R7	4.7	±20%	100	0.320	840	770	950	830

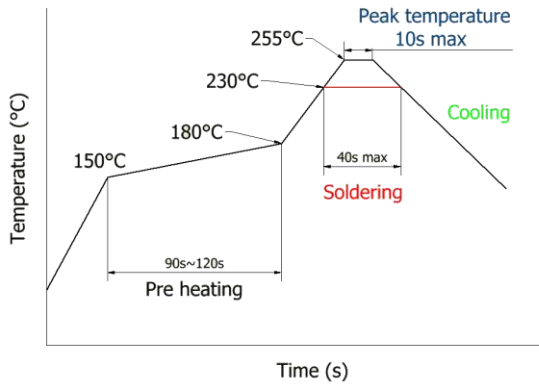
Part No.	Inductance (uH)	Inductance tolerance	Test Frequency (kHz)	DC Resistance (Ω) ±20%	Saturation current Isat(mA)		Temperature rise current Irms(mA)	
					Typ.	Max.	Typ.	Max.
FNR2012T-1R0	1.0	±30%	100	0.073	2360	2210	1850	1660
FNR2012T-1R5	1.5	±30%	100	0.100	1960	1810	1560	1410
FNR2012T-2R2	2.2	±20%	100	0.129	1710	1610	1380	1210
FNR2012T-3R3	3.3	±20%	100	0.227	1360	1260	1060	910
FNR2012T-4R7	4.7	±20%	100	0.325	1160	1100	870	760

*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)

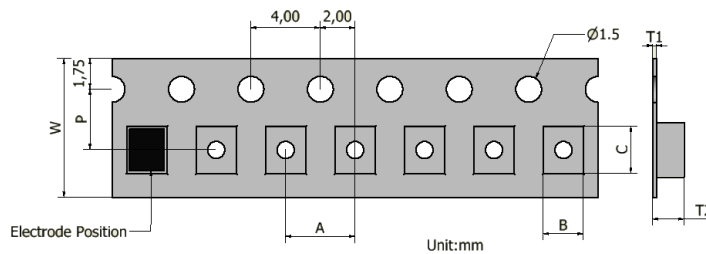
*Rated current: smaller value of either Isat or Irms.

RECOMMENDED SOLDERING CONDITIONS



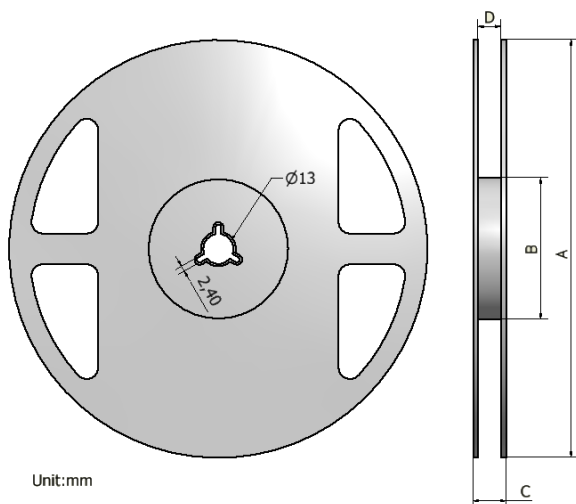
PACKAGE

(1) Taping specifications



Type	W	P	A	B	C	T1	T2
FNR2010	8	3.5	4.0	2.3	2.3	0.23	1.2
FNR2012	8	3.5	4.0	2.3	2.3	0.23	1.4

(2) Reel Specifications



Type	A	B	C	D	Q'ty/Reel
FNR2010	180±0.1	60±0.1	14.5±0.1	10±0.15	2500
FNR2012	180±0.1	60±0.1	14.5±0.1	10±0.15	2500

Label

Wire Wound Power Inductors
 FNR20□□T-□□□M/N
 □□□□PCS
 Lot No. _____
 FUMIWA TECHNIAL CO., LTD.

Type	Q'ty
PCS/Reel	2500
Reel/inner Box	10000
Inner Box/Carton	40000