

Features

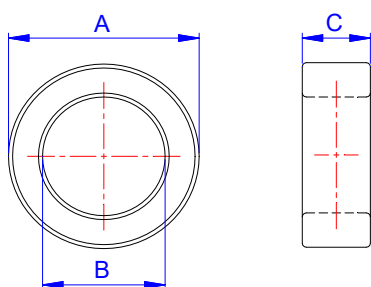
- * Cable-based EMI suppression in industrial electronics
- * Common mode chokes manufacturing
- * Solar and renewable energy converters
- * Frequency converters and Motor-drive systems



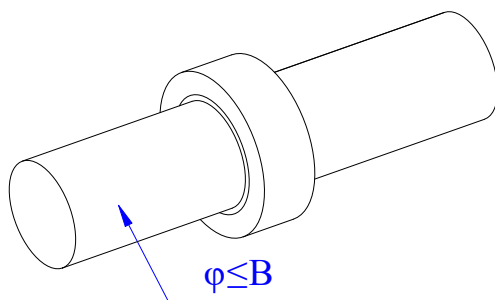
Applications

- * By combining strong magnetic performance with flexible size and inductance options beyond typical ferrite limits, Nanocrystalline cores enable smaller designs
- * High attenuation at lower frequencies with broadband noise-filtering capability
- * Temperature stable behavior compared to existing ferrite materials

Appearance and Dimensions



Applicable cable diameter: [mm]



Product Identification

EN9M T 31.0X19.0X16.0

① ② ③

- ① Material Code
- ② Product Symbol
- ③ Dimensions

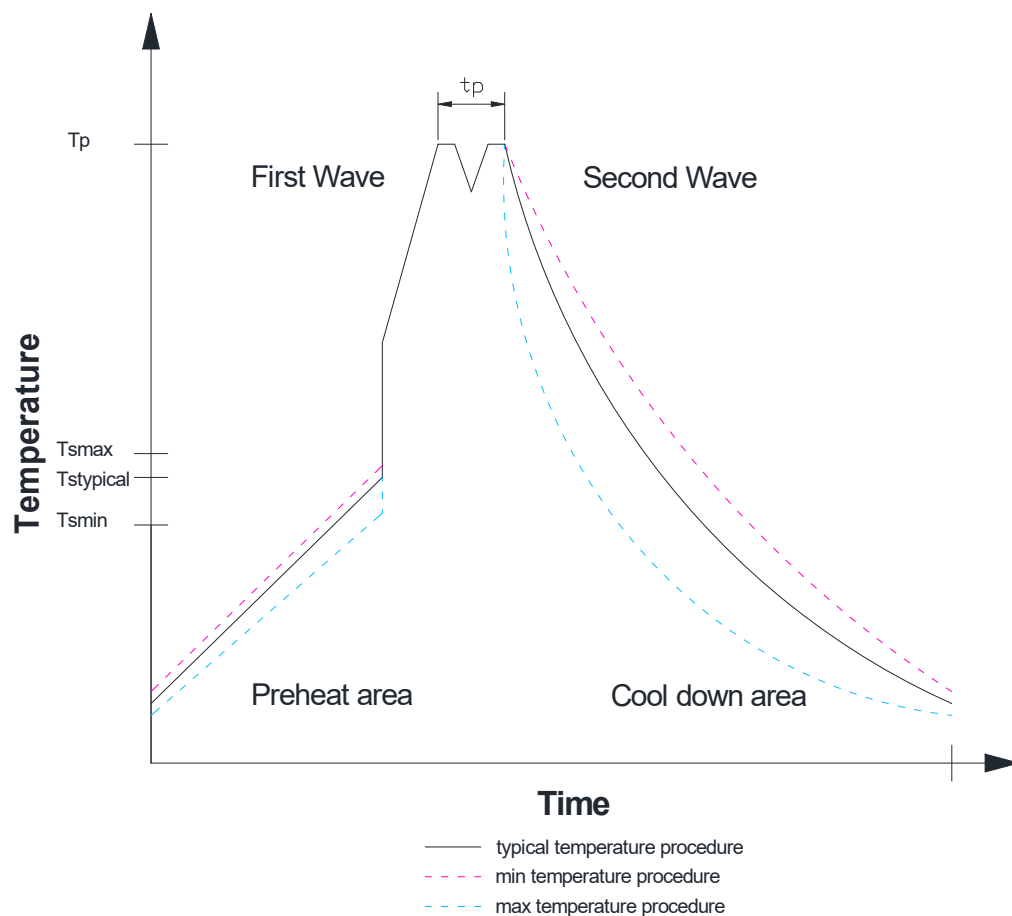
Electrical Characteristics

Series	Dimensions(mm)			Typical Impedance(Ω)	
	A	B	C	25MHz	100MHz
EN9MT3.5X0.8X2.5	3.50 $\pm$ 0.15	0.80 $\pm$ 0.15	2.50 $\pm$ 0.20	25.0	52.0
EN9MT3.5X0.8X3.0	3.50 $\pm$ 0.15	0.80 $\pm$ 0.15	3.00 $\pm$ 0.20	31.0	53.0
EN9MT3.5X1.2X3.0	3.50 $\pm$ 0.15	1.20 $\pm$ 0.15	3.00 $\pm$ 0.20	25.0	45.0
EN9MT3.5X1.3X3.25	3.50 $\pm$ 0.15	1.30 $\pm$ 0.15	3.25 $\pm$ 0.20	27.0	48.0
EN9MT3.5X1.5X3.0	3.50 $\pm$ 0.15	1.50 $\pm$ 0.15	3.00 $\pm$ 0.20	18.0	37.0
EN9MT4.0X2.0X1.5	4.00 $\pm$ 0.20	2.00 $\pm$ 0.15	1.50 $\pm$ 0.15	13.0	35.0
EN9MT4.0X2.0X2.0	4.00 $\pm$ 0.20	2.00 $\pm$ 0.15	2.00 $\pm$ 0.20	14.0	37.0
EN9MT4.0X2.0X3.0	4.00 $\pm$ 0.20	2.00 $\pm$ 0.15	3.00 $\pm$ 0.20	20.0	41.0
EN9MT4.5X1.5X4.0	4.50 $\pm$ 0.20	1.50 $\pm$ 0.15	4.00 $\pm$ 0.30	31.0	55.0
EN9MT4.5X2.8X1.5	4.50 $\pm$ 0.20	2.80 $\pm$ 0.15	1.50 $\pm$ 0.15	12.0	32.0
EN9MT6.0X3.0X2.0	6.00 $\pm$ 0.20	3.00 $\pm$ 0.20	2.00 $\pm$ 0.15	15.0	35.0
EN9MT6.0X3.0X3.0	6.00 $\pm$ 0.20	3.00 $\pm$ 0.20	3.00 $\pm$ 0.20	21.0	40.0
EN9MT6.0X3.0X4.0	6.00 $\pm$ 0.20	3.00 $\pm$ 0.20	4.00 $\pm$ 0.30	24.0	50.0
EN9MT8.0X4.0X3.0	8.00 $\pm$ 0.30	4.00 $\pm$ 0.20	3.00 $\pm$ 0.30	24.0	60.0
EN9MT8.0X4.0X4.0	8.00 $\pm$ 0.30	4.00 $\pm$ 0.20	4.00 $\pm$ 0.30	26.0	67.0
EN9MT9.0X5.0X3.0	9.00 $\pm$ 0.30	5.00 $\pm$ 0.25	3.00 $\pm$ 0.20	22.0	60.0
EN9MT9.0X5.0X5.0	9.00 $\pm$ 0.30	5.00 $\pm$ 0.25	5.00 $\pm$ 0.30	30.0	70.0
EN9MT9.0X5.0X8.0	9.00 $\pm$ 0.30	5.00 $\pm$ 0.25	8.00 $\pm$ 0.30	40.0	85.0
EN9MT9.5X5.0X4.8	9.50 $\pm$ 0.30	5.00 $\pm$ 0.25	4.80 $\pm$ 0.30	28.0	69.0
EN9MT9.5X5.0X5.0	9.50 $\pm$ 0.30	5.00 $\pm$ 0.25	5.00 $\pm$ 0.30	30.0	70.0
EN9MT10.0X6.0X4.0	10.00 $\pm$ 0.30	6.00 $\pm$ 0.30	4.00 $\pm$ 0.30	22.0	50.0
EN9MT10.0X5.0X5.0	10.00 $\pm$ 0.30	5.00 $\pm$ 0.25	5.00 $\pm$ 0.30	30.0	60.0
EN9MT10.0X5.6X10.5	10.00 $\pm$ 0.30	5.60 $\pm$ 0.25	10.50 $\pm$ 0.30	50.0	110
EN9MT10.0X7.0X5.0	10.00 $\pm$ 0.30	7.00 $\pm$ 0.30	5.00 $\pm$ 0.30	21.0	62.0
EN9MT12.0X5.6X7.0	12.00 $\pm$ 0.30	5.60 $\pm$ 0.25	7.00 $\pm$ 0.30	40.0	80.0
EN9MT12.0X7.2X10.0	12.00 $\pm$ 0.30	7.20 $\pm$ 0.30	10.00 $\pm$ 0.30	40.0	80.0
EN9MT12.7X7.9X6.35	12.70 $\pm$ 0.30	7.90 $\pm$ 0.30	6.35 $\pm$ 0.30	28.0	70.0
EN9MT14.0X7.0X5.0	14.00 $\pm$ 0.40	7.00 $\pm$ 0.30	5.00 $\pm$ 0.30	28.0	68.0
EN9MT14.0X8.0X5.0	14.00 $\pm$ 0.40	8.00 $\pm$ 0.30	5.00 $\pm$ 0.30	26.0	64.0
EN9MT14.0X8.0X7.0	14.00 $\pm$ 0.40	8.00 $\pm$ 0.30	7.00 $\pm$ 0.30	28.0	50.0
EN9MT14.0X9.0X5.0	14.00 $\pm$ 0.40	9.00 $\pm$ 0.30	5.00 $\pm$ 0.30	22.0	60.0
EN9MT14.0X10.0X5.0	14.00 $\pm$ 0.40	10.00 $\pm$ 0.30	5.00 $\pm$ 0.30	19.0	61.0
EN9MT14.0X10.0X8.0	14.00 $\pm$ 0.40	10.00 $\pm$ 0.30	8.00 $\pm$ 0.30	26.0	64.0
EN9MT14.2X6.35X10.0	14.20 $\pm$ 0.40	6.35 $\pm$ 0.30	10.0 $\pm$ 0.30	57.0	103
EN9MT14.2X6.35X13.5	14.20 $\pm$ 0.40	6.35 $\pm$ 0.30	13.50 $\pm$ 0.40	75.0	125
EN9MT14.2X8.0X12.0	14.20 $\pm$ 0.40	8.00 $\pm$ 0.30	12.00 $\pm$ 0.40	49.0	76.0

EN9MT16.0X8.0X13.0	16.00±0.40	8.00+0.50	13.00±0.40	67.0	140
EN9MT16.0X8.0X16.0	16.00±0.40	8.00+0.50	16.00±0.40	83.0	140
EN9MT16.0X10.0X5.0	16.00±0.40	10.00±0.30	5.00±0.40	23.0	63.0
EN9MT16.0X10.0X8.0	16.00±0.40	10.00±0.40	8.00±0.40	32.0	72.0
EN9MT16.0X10.0X10.0	16.00±0.40	10.00±0.30	10.00±0.40	43.0	85.0
EN9MT16.0X12.0X8.0	16.00±0.40	12.00±0.40	8.00±0.40	26.0	64.0
EN9MT16.0X12.0X13.0	16.00±0.40	12.00+0.50	13.00±0.40	33.0	72.0
EN9MT17.5X8.0X10.0	17.50±0.40	8.00±0.30	10.00±0.40	62.0	94.0
EN9MT17.5X9.5X6.35	17.50±0.40	9.50±0.30	6.35±0.30	32.0	73.0
EN9MT17.5X10.7X8.0	17.50±0.40	10.70±0.40	8.00±0.30	33.0	60.0
EN9MT17.5X9.5X12.7	17.50±0.40	9.50±0.30	12.70±0.40	60.0	101
EN9MT17.5X9.5X15.0	17.50±0.40	9.50±0.30	15.00±0.40	70.0	135
EN9MT18.0X10.0X6.0	18.00±0.50	10.00±0.40	6.00±0.30	31.0	70.0
EN9MT18.0X10.0X10.0	18.00±0.50	10.00±0.40	10.00±0.40	42.0	89.0
EN9MT20.0X10.0X5.0	20.00±0.60	10.00±0.40	5.00±0.30	28.0	68.0
EN9MT20.0X10.0X10.0	20.00±0.50	10.00±0.40	10.00±0.40	54.0	102
EN9MT20.0X12.0X8.0	20.00±0.50	12.00±0.40	8.00±0.30	32.0	72.0
EN9MT20.0X12.0X10.0	20.00±0.60	12.00±0.40	10.00±0.40	40.0	68.0
EN9MT22.5X13.8X6.4	22.50±0.60	13.80±0.40	6.40±0.30	25.0	47.0
EN9MT22.5X13.8X8.0	22.50±0.60	13.80±0.40	8.00±0.30	37.0	78.0
EN9MT22.5X13.8X10.0	22.50±0.60	13.80±0.40	10.00±0.40	42.0	83.0
EN9MT22.5X13.8X12.7	22.50±0.60	13.80±0.40	12.70±0.40	48.0	90.0
EN9MT25.0X15.0X5.0	25.00±0.60	15.00±0.50	5.00±0.30	26.0	68.0
EN9MT25.0X15.0X8.0	25.00±0.60	15.00±0.50	8.00±0.30	38.0	79.0
EN9MT25.0X15.0X10.0	25.00±0.60	15.00±0.50	10.00±0.40	44.0	87.0
EN9MT25.0X15.0X12.0	25.00±0.60	15.00±0.50	12.00±0.40	53.0	97.0
EN9MT25.0X15.0X15.0	25.00±0.60	15.00±0.50	15.00±0.40	58.0	105
EN9MT25.0X16.0X7.5	25.00±0.60	16.00±0.50	7.50±0.30	32.0	73.0
EN9MT28.0X16.0X7.5	28.00±0.60	16.00±0.50	7.50±0.30	33.0	59.0
EN9MT28.0X16.0X13.0	28.00±0.60	16.00±0.50	13.00±0.40	55.0	100
EN9MT28.0X16.0X17.0	28.00±0.60	16.00±0.50	17.00±0.40	71.0	120
EN9MT28.0X16.0X20.0	28.00±0.60	16.00±0.50	20.00±0.50	85.0	155
EN9MT29.0X19.0X7.5	29.00±0.60	19.00±0.50	7.50±0.30	26.0	70.0
EN9MT29.0X19.0X13.0	29.00±0.60	19.00±0.50	13.00±0.30	45.0	90.0
EN9MT31.0X19.0X7.5	31.00±0.80	19.00±0.50	7.50±0.30	35.0	77.0
EN9MT31.0X19.0X10.0	31.00±0.80	19.00±0.50	10.00±0.30	40.0	85.0
EN9MT31.0X19.0X16.0	31.00±0.80	19.00±0.50	16.00±0.40	68.0	115

Recommended Soldering Conditions

Classification Wave Soldering Profile:



Profile Feature		Lead-Free Assembly
Preheat Temperature Min	T_{smin}	100 °C
Preheat Temperature Typical	$T_{s typical}$	120 °C
Preheat Temperature Max	$T_{s max}$	130 °C
Preheat Time t_s from $T_{s min}$ to $T_{s max}$	t_s	70 seconds
Ramp-up Rate	ΔT	150 °C max.
Peak Temperature	T_p	250 °C - 260 °C
Time of actual peak temperature	t_p	max. 10 seconds max. 5 seconds each wave
Ramp-down Rate, Min		~ 2 K/ second
Ramp-down Rate, Typical		~ 3.5 K/ second
Ramp-down Rate, Max		~ 5K/ second
Time 25 °C to 25 °C		4 minutes

Refer to EN61760-1:2006

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Products Storage

(1) Storage period

Products which inspected in LYEC over 12 months ago should be examined and used, which can be confirmed with inspection No. marked on the container. Solderability should be checked if this period is exceeded.

(2) Storage conditions

Products should be storage in the warehouse on the following conditions:

Temperature: Less than 40°C

Humidity : Less than 75% relative and humidity

No rapid change on temperature and humidity

- (3) Don't keep products in corrosive gases such as sulfur, chlorine gas or acid, or it may cause oxidization of electrode, resulting in poor solderability.
- (4) Products should be storage on the palette for the prevention of the influence from humidity, dust and so on.
- (5) Products should be storage in the warehouse without heat shock, vibration, direct sunlight and so on.
- (6) Products should be storage under the airtight packaged condition.