

# Molding Power Choke

## ◎ Product introduction 產品介紹

- Excellent solderability and heat resistance for either flow or reflow soldering

良好的可焊性和耐焊性

- RoHS, Halogen Free and REACH Compliance

符合RoHS、无卤和REACH的规范

- High rated current

耐受大电流

- Ultra low buzz noise due to molding construction

成型式低噪音



## ◎ Product application 產品應用

- Laptops and PCs, Switches and servers, Base stations, DC/DC converters

笔记本电脑和掌上电脑，交换机和服务器，基站，直流对直流转换器等

## ◎ Product Identification 產品標識

MPZ 10040 - R22 M T

MPZ-----Series name 系列名稱

10040-----Dimension 產品尺寸

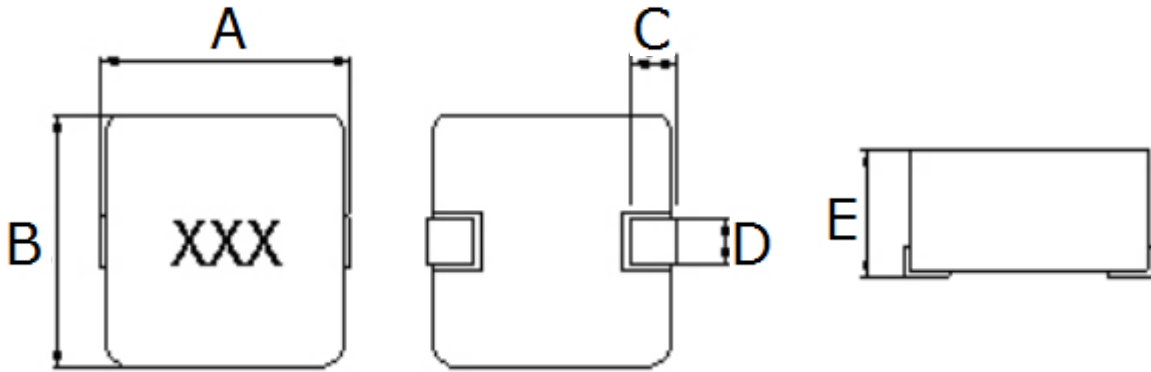
R22-----Inductance 電感值

M-----Tolerance 公差【J=5% , K=10% , M= 20% , T= 30%】

T-----Taping 編帶盤裝

# Molding Power Choke

## ◎Shape&Dimensions 形狀與尺寸:

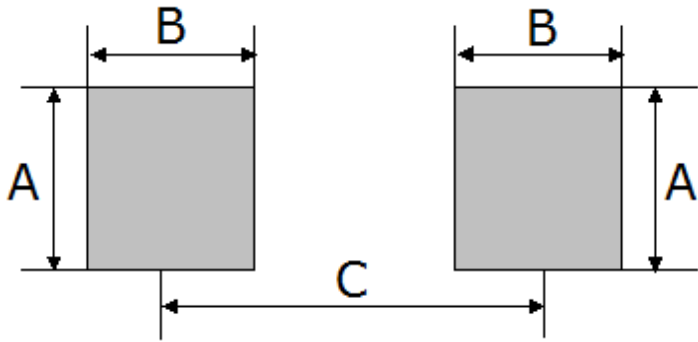


UNIT:mm

SIZE CODE	A	B	C	D	E	CHIPS REEL
04012	4.6±0.20	4.1±0.20	1.0±0.50	1.5±0.30	1.2 MAX	2K
04015	4.6±0.20	4.1±0.20	1.0±0.50	1.5±0.30	1.5 MAX	2K
04020	4.6±0.20	4.1±0.20	1.0±0.50	1.5±0.30	2.0 MAX	2K
05012	5.7±0.20	5.4±0.40	1.5±0.30	2.0±0.30	1.2 MAX	1K
05015	5.7±0.20	5.4±0.40	1.5±0.30	2.0±0.30	1.5 MAX	1K
05018	5.7±0.20	5.4±0.40	1.5±0.30	2.0±0.30	1.8 MAX	1K
05020	5.7±0.20	5.4±0.40	1.5±0.30	2.0±0.30	2.0 MAX	1K
05030	5.7±0.20	5.4±0.40	1.5±0.30	2.0±0.30	3.0 MAX	1K
06012	7.5 MAX	6.6±0.50	1.6±0.50	3.0 Typ.	1.2 MAX	1K
06015	7.5 MAX	6.6±0.50	1.6±0.50	3.0 Typ.	1.5 MAX	1K
06018	7.5 MAX	6.6±0.50	1.6±0.50	3.0 Typ.	1.8 MAX	1K
06024	7.5 MAX	6.6±0.50	1.6±0.50	3.0 Typ.	2.4 MAX	1K
06030	7.5 MAX	6.6±0.50	1.6±0.50	3.0 Typ.	3.0 MAX	1K
06050	7.5 MAX	6.6±0.50	1.6±0.50	3.0 Typ.	5.0 MAX	0.5K
10030	11.6 MAX	10.1±0.32	2.5±0.50	3.0 Typ.	3.0 MAX	0.5K
10040	11.6 MAX	10.1±0.32	2.5±0.50	3.0 Typ.	4.0 MAX	0.5K
12050	13.8 MAX	12.6±0.20	2.7±0.70	3.7 Typ.	5.0 MAX	0.5K
12060	13.8 MAX	12.6±0.20	2.7±0.70	3.7 Typ.	6.0 MAX	0.5K

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## ◎Recommender Land Pattern 推薦焊盤布局:



UNIT:mm

SIZE CODE (mm)	A Typ.	B Typ.	C Typ.	SIZE CODE (mm)	A Typ.	B Typ.	C Typ.
04012	2.5	1.5	3.7	06015	3.5	2.4	6.1
04015	2.5	1.5	3.7	06018	3.5	2.4	6.1
04020	2.5	1.5	3.7	06024	3.5	2.4	6.1
05012	2.5	1.9	4.1	06030	3.5	2.4	6.1
05015	2.5	1.9	4.1	06050	3.5	2.4	6.1
05018	2.5	1.9	4.1	10030	4	3.5	9.5
05020	2.5	1.9	4.1	10040	4	3.5	9.5
05030	2.5	1.9	4.1	12050	5	4	10.1
06012	3.5	2.4	6.1	12060	5	4	10.1

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## ◎ Characteristics Specification Table 特性規格表：

ORDERING CORE	Inductance ( $\mu$ H)	Tolerance ( $\pm$ %)	Test Frequency	RDC ( MAX ) ( $\Omega$ )	Irms Typ. (A)	Isat Typ. (A)
MPZ10040-R22	0.22	M	100KHz / 1.0V	0.0010	35.0	40.0
MPZ10040-R36	0.36	M	100KHz / 1.0V	0.0013	30.0	55.0
MPZ10040-R47	0.47	M	100KHz / 1.0V	0.0017	26.0	45.0
MPZ10040-R56	0.56	M	100KHz / 1.0V	0.0180	22.0	45.0
MPZ10040-R68	0.68	M	100KHz / 1.0V	0.0020	24.0	30.0
MPZ10040-1R0	1.00	M	100KHz / 1.0V	0.0410	18.0	36.0
MPZ10040-1R5	1.50	M	100KHz / 1.0V	0.0460	17.0	24.0
MPZ10040-2R2	2.20	M	100KHz / 1.0V	0.0070	14.0	22.0
MPZ10040-3R3	3.30	M	100KHz / 1.0V	0.0120	19.0	10.0
MPZ10040-4R7	4.70	M	100KHz / 1.0V	0.0165	9.5	13.0
MPZ10040-5R6	5.60	M	100KHz / 1.0V	0.0180	8.5	15.0
MPZ10040-6R8	6.80	M	100KHz / 1.0V	0.0220	10.0	13.0
MPZ10040-8R2	8.20	M	100KHz / 1.0V	0.0270	6.5	11.0
MPZ10040-100	10.00	M	100KHz / 1.0V	0.0260	7.0	9.0
MPZ10040-150	15.00	M	100KHz / 1.0V	0.0530	4.8	9.5
MPZ10040-220	22.00	M	100KHz / 1.0V	0.0700	4.0	6.0
MPZ10040-330	33.00	M	100KHz / 1.0V	0.1250	3.2	6.0

Standard Testing Condition:

Temperature: Ordinary Temperature(15 to 35°C), In case of doubt: 20 $\pm$ 2°C

Humidity: Ordinary Humidity(25 to 85% RH), In case of doubt: 60 to 70 % RH

Tolerance K= $\pm$ 10% / M= $\pm$ 20%