



FEATURES

- ◆ A MnZn ferrite supplied in small cores to suppress conducted EMI frequencies below 50 MHz.
- ◆ Surface mount beads are available in several sizes.
- ◆ Their rugged construction lowers the DC resistance and increases current carrying capacity compared to plated beads.

APPLICATIONS

- ◆ Suitable applications are ones used in DC/DC converters for servers and various decentralized power supplies.
- ◆ Power supplier of Edge Server
- ◆ EMI for Automotive Power.

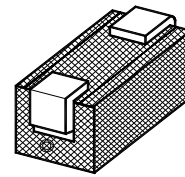
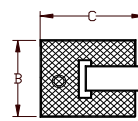
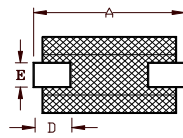


Figure 1

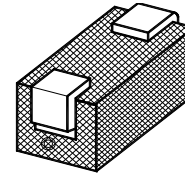
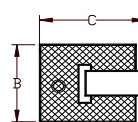
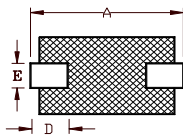


Figure 2

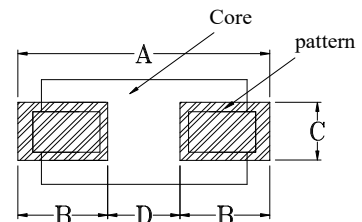
DIMENSIONS (mm)

Part No.	Size (mm)				Figure
	A	B	C	D	
SMBM 403022I	5.00 Max.	3.00 ± 0.15	2.50 Max	1.30 ± 0.25	1
SMBM 403025	5.00 Max.	3.10 ± 0.15	3.10 Max.	1.35 ± 0.15	2
SMBM 784730	8.80 Max.	4.75 ± 0.20	3.55 Max.	1.45 ± 0.30	2
SMBM 853025	9.50 Max.	3.10 ± 0.15	3.10 Max.	1.45 ± 0.30	2

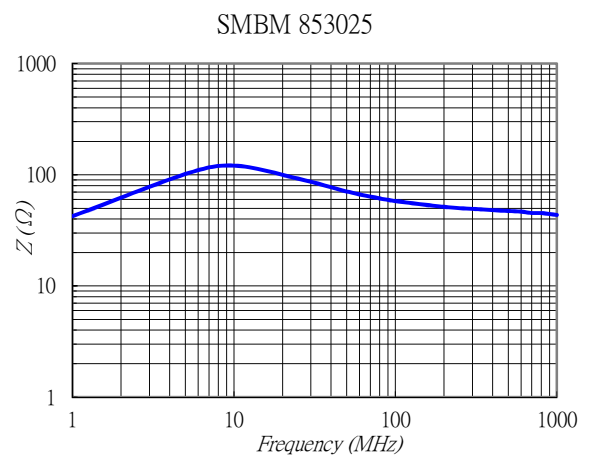
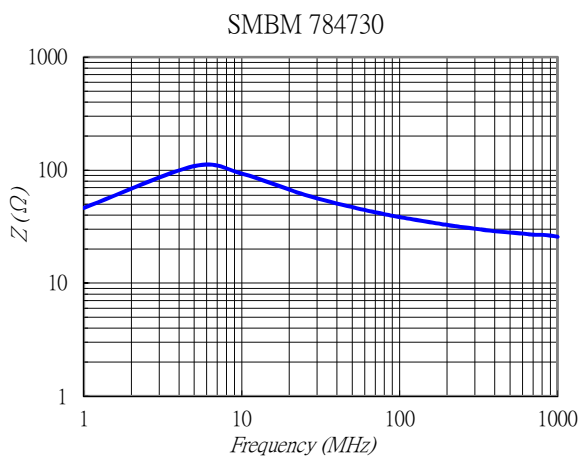
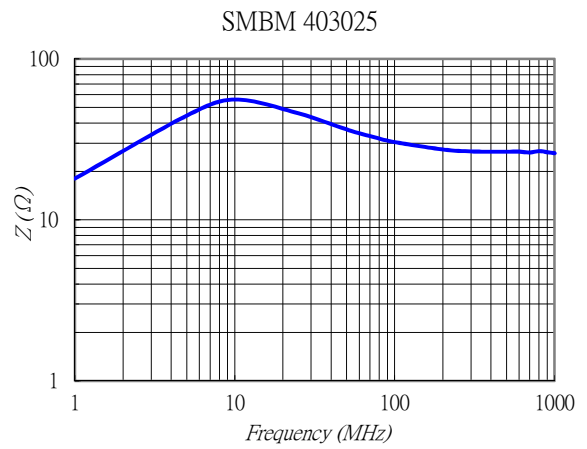
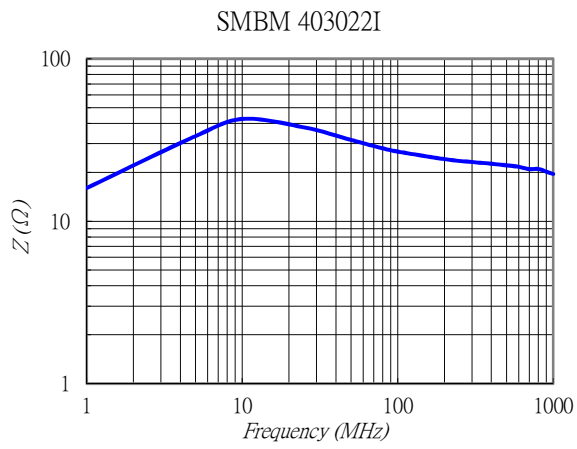
No.	Part No.	Impedance (Ω)		DC Resistance (mΩ) Max.	Rated Current (A) ΔT=40°C
		1MHz	10MHz		
1	SMBM 403022I	11 Min.	29 Min. 42 Typ.	0.60	10 Typ.
2	SMBM 403025	14 Min.	34 Min. 42 Typ.	0.75	10 Typ.
3	SMBM 784730	30 Min.	70 Min. 90 Typ.	1.00	10 Typ.
4	SMBM 853025	30 Min.	72 Min. 90 Typ.	1.00	10 Typ.

RECOMMENDED PATTERN (mm)

Type	A	B	C	D
SMBM 403022I	7.00	3.00	1.80	1.00
SMBM 403025	7.00	3.00	1.80	1.00
SMBM 784730	10.50	3.00	1.80	4.50
SMBM 853025	10.50	3.00	1.80	4.50

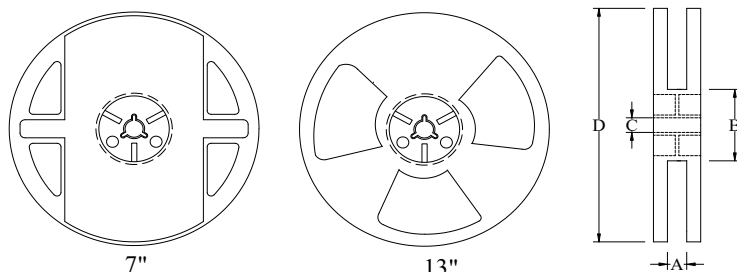


■ CHARACTERISTICS CURVE



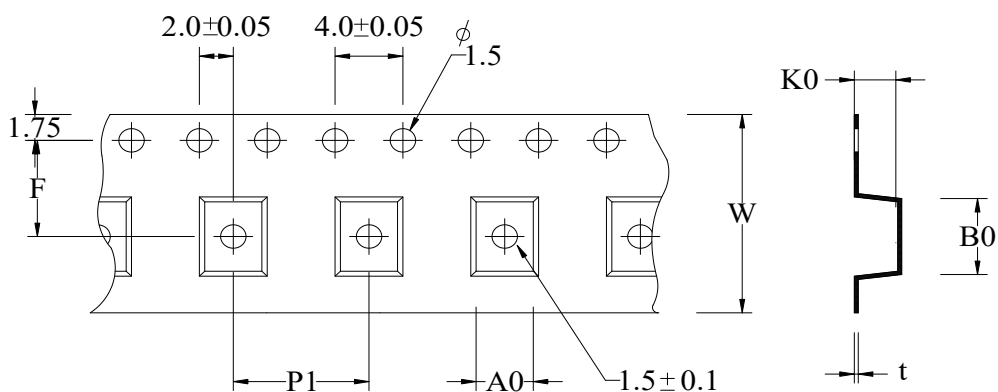
Packaging Information

• Reel Dimension

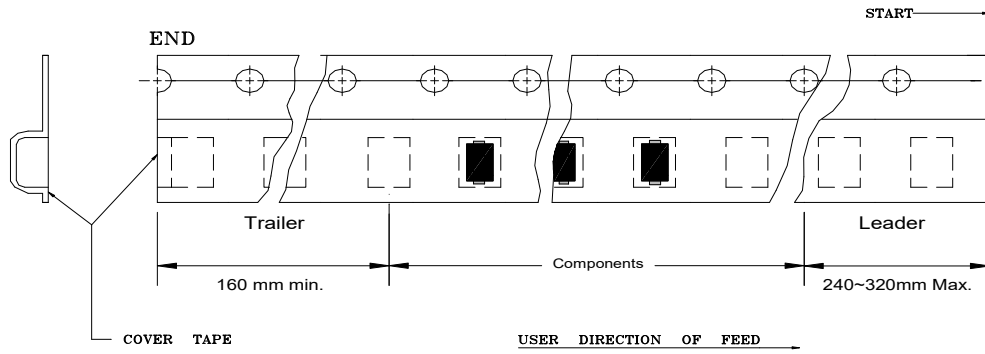


Part No.	Reel	A(mm)	B(mm)	C(mm)	D(mm)
SMBM 403022I	7"x12mm	12.4+2/-0	50 min	13+0.5/-0.2	178±2.0
SMBM 403025	7"x12mm	12.4+2/-0	50 min	13+0.5/-0.2	178±2.0
SMBM 403025	13"x12mm	12.4+2/-0	50 min	13+0.5/-0.2	330±2.0
SMBM 784730	7"x16mm	16.4+2/-0	50 min	13+0.5/-0.2	178±2.0
SMBM 853025	7"x16mm	16.4+2/-0	50 min	13+0.5/-0.2	178±2.0
SMBM 853025	13"x16mm	16.4+2/-0	50 min	13+0.5/-0.2	330±2.0

• Tape Dimension



Part No.	A0(mm)	B0(mm)	K0(mm)	F(mm)	P1(mm)	W(mm)	T(mm)
SMBM 403022I	3.25±0.1	4.85±0.1	2.50±0.1	5.5±0.05	8.0±0.1	12.0±0.2	0.27±0.05
SMBM 403025	3.25±0.05	4.85±0.05	3.05±0.1	5.5±0.05	8.0±0.1	12.0±0.2	0.27±0.05
SMBM 784730	5.00±0.1	8.40±0.1	3.05±0.1	7.5±0.05	8.0±0.1	16.0±0.2	0.30±0.05
SMBM 853025	3.20±0.1	9.30±0.1	3.10±0.1	7.5±0.05	8.0±0.1	16.0±0.2	0.30±0.05

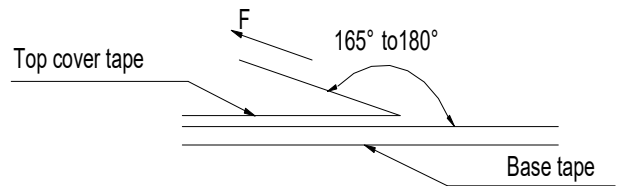


• Packaging Quantity

Part No.	SMBM 403022I	SMBM 403025	SMBM 784730	SMBM 853025
Q'TY / Reel	1000	500 / 3000	500	500 / 3000
Reel size	7"	7" / 13"	7"	7" / 13"

• Tearing Off Force

The force for tearing off cover tape is 10 to 120 grams in the arrow direction under the following conditions (referenced ANSI/EIA-481-D-2008 of 4.11 standard).



Tearing Speed mm	Room Temp (°C)	Room Humidity (%)	Room atm (hPa)
300±10%	5~35	45~85	860~1060

■ Application Notice

• Storage Conditions(component level)

To maintain the solderability of terminal electrodes:

1. Products meet IPC/JEDEC J-STD-020E standard-MSL, level 1.
2. Temperature and humidity conditions: Less than 40°C and 60% RH.
3. Recommended products should be used within 12 months form the time of delivery.
4. The packaging material should be kept where no chlorine or sulfur exists in the air.

• Transportation

1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
3. Bulk handling should ensure that abrasion and mechanical shock are minimized.