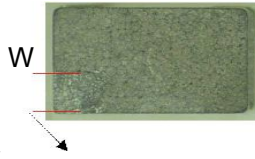
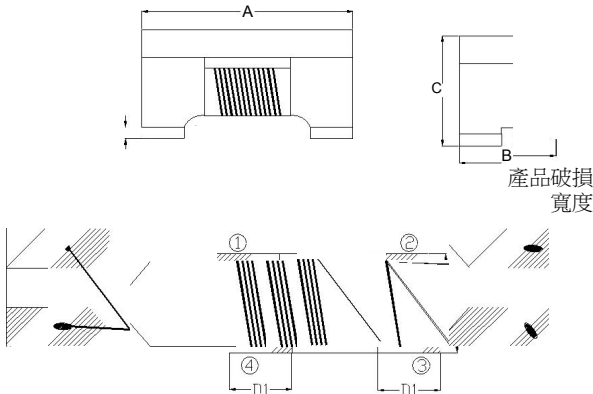


1.Features

1. High common mode impedance at high frequency cause excellent noise suppression performance.
2. EMCM2012F2SF series realizes small size and low profile. 2.0x1.2x1.2 mm.
3. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



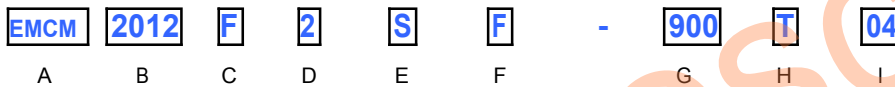
2.Dimension



當破損面積 < 5%, 產品列入允收品範圍

Series	A(mm)	B(mm)	C(mm)	D1(mm)	D2(mm)	E(mm)
2012F2SF	2.0±0.2	1.2±0.2	1.2±0.2	0.50±0.1	0.51±0.1	0.15±0.1

3.Part Numbering

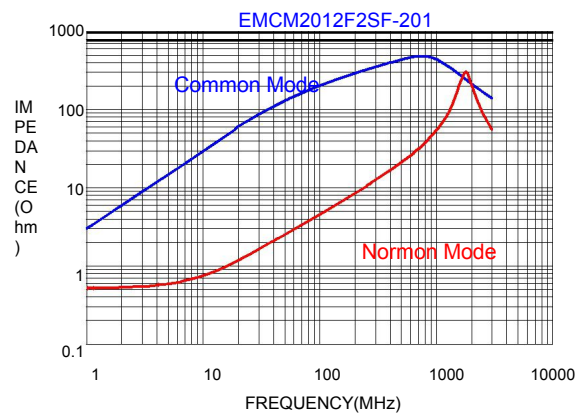
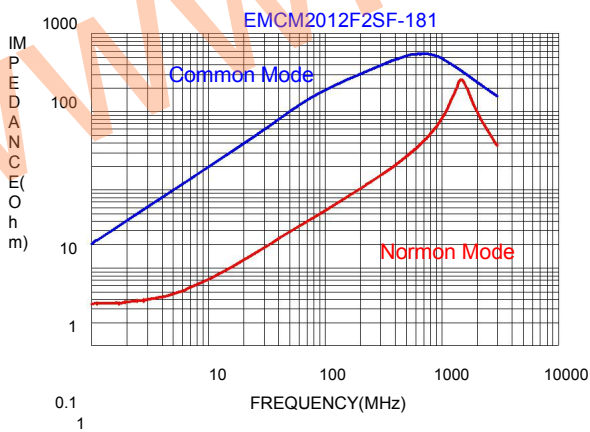
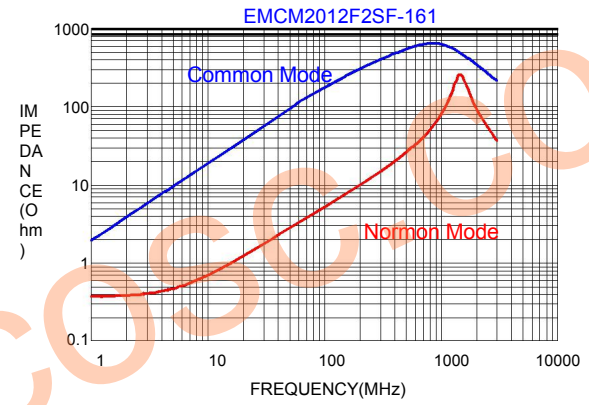
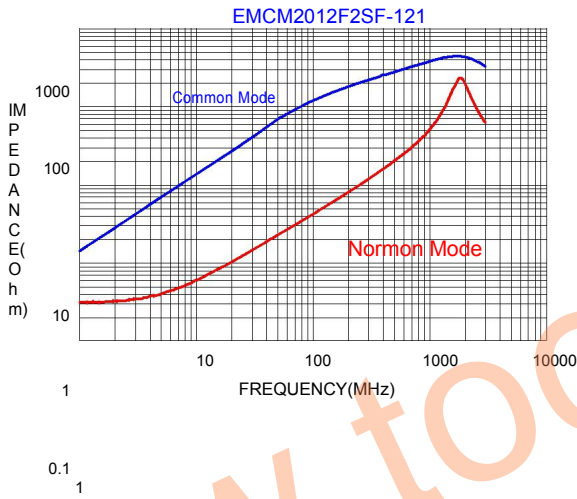
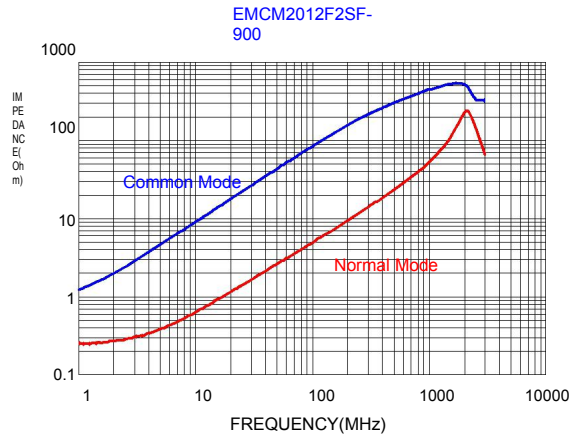
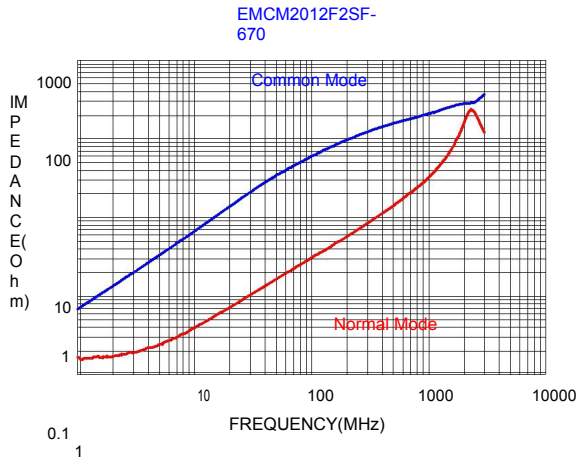


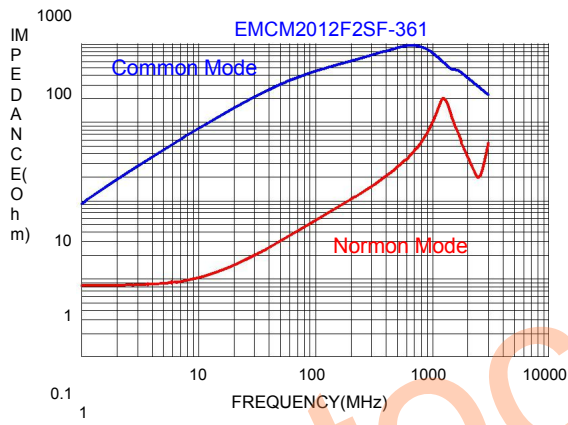
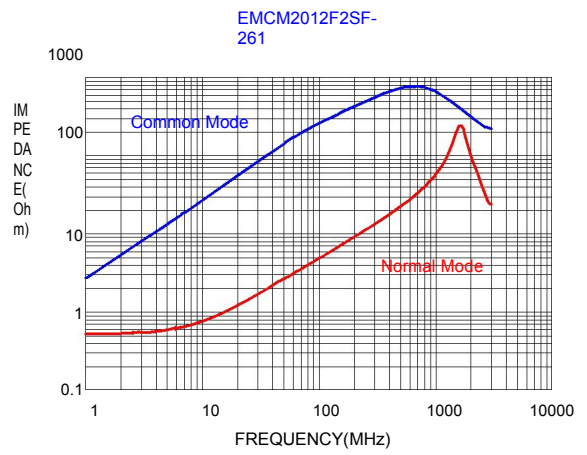
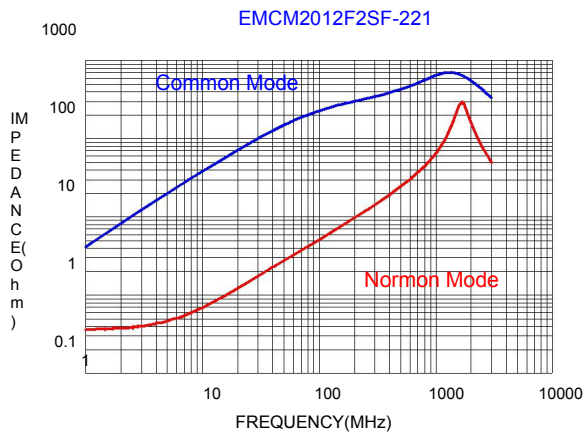
- A: Series
- B: Dimension
- C: Material Ferrite Core
- D: Number of Lines 2=2 lines
- E: Type S=Shielded , N=Unshielded
- F: Lead free
- G: Impedance 900=90Ω
- H: Packaging T=Taping and Reel
- I: Rated Current 04=400mA

4.Specification

TOCOET Part Number	Common mode Impedance (Ω)	Test Frequency (MHz)	DC Resistance (Ω) max.	Rated Current (mA)max.	Rated Volt. (Vdc)max.	Withstand Volt. (Vdc) max.	IR (Ω) min.
EMCM2012F2SF-670T04	67±25%	100	0.25	400	50	125	10M
EMCM2012F2SF-900T04	90±25%	100	0.30	400	50	125	10M
EMCM2012F2SF-121T04	120±25%	100	0.30	400	50	125	10M
EMCM2012F2SF-161T03	160±25%	100	0.35	350	50	125	10M
EMCM2012F2SF-181T03	180±25%	100	0.35	350	50	125	10M
EMCM2012F2SF-201T03	200±25%	100	0.40	300	50	125	10M
EMCM2012F2SF-221T03	220±25%	100	0.40	300	50	125	10M
EMCM2012F2SF-261T03	260±25%	100	0.40	300	50	125	10M
EMCM2012F2SF-361T03	360±25%	100	0.50	300	50	125	10M

Typical Impedance v.s. Frequency Curve





Wire Wound Type Common Mode Filter

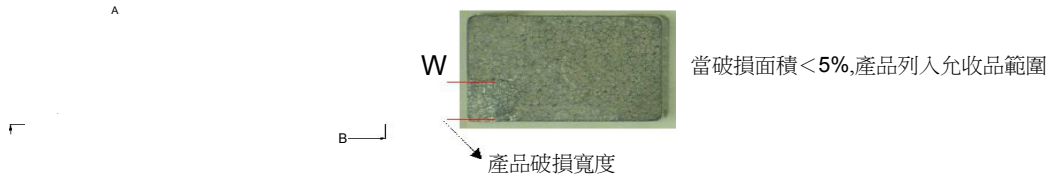
EMCM3216F2SF-SERIES

1. Features

1. High common mode impedance at high frequency cause excellent noise suppression performance.
2. EMCM3216F2SF series realizes small size and low profile. 3.2x1.6x2.0 mm.
3. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



2. Dimension



Series	A(mm)	B(mm)	C(mm)	D1(mm)	D2(mm)	E(mm)
3216F2SF	3.2±0.2	1.6±0.2	2.0±0.2	0.5±0.1	0.5±0.1	0.15±0.1

Units: mm

3. Part Numbering

EMCM	3216	F	2	S	F	-	900	T	04
A	B	C	D	E	F		G	H	I

- A: Series
- B: Dimension
- C: Material Ferrite Core
- D: Number of Lines 2=2 lines
- E: Type S=Shielded , N=Unshielded
- F: Lead free type
- G: Impedance 900=90Ω
- H: Packaging T=Taping and Reel
- I: Rated Current 04=400mA

4. Specification

TOCOET Part Number	Common mode Impedance (Ω)	Test Frequency (MHz)	DC Resistance (Ω) max.	Rated Current (mA)max.	Rated Volt. (Vdc)max.	Withstand Volt. (Vdc) Max.	IR (Ω) min.
EMCM3216F2SF-900T04	90±25%	100	0.30	400	50	125	10M
EMCM3216F2SF-121T03	120±25%	100	0.30	350	50	125	10M
EMCM3216F2SF-161T03	160±25%	100	0.40	350	50	125	10M
EMCM3216F2SF-221T03	220±25%	100	0.45	300	50	125	10M
EMCM3216F2SF-261T03	260±25%	100	0.50	300	50	125	10M
EMCM3216F2SF-361T03	360±25%	100	0.60	300	50	125	10M
EMCM3216F2SF-601T03	600±25%	100	0.80	300	50	125	10M
EMCM3216F2SF-102T02	1000±25%	100	1.00	200	50	125	10M
EMCM3216F2SF-222T02	2200±25%	100	1.20	200	50	125	10M

Wire Wound Type Common Mode Filter

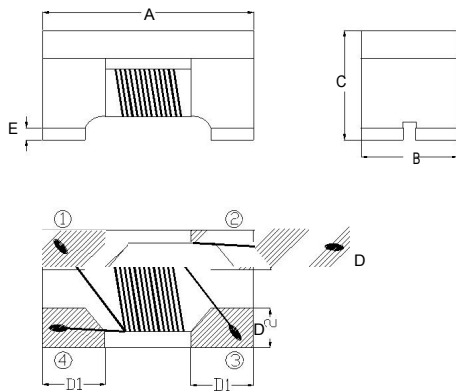
EMCM3225F2SF-SERIES

1. Features

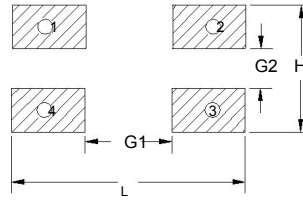
1. High common mode impedance at high frequency cause excellent noise suppression performance.
2. EMCM3225F2SF series realizes small size and low profile. 3.2x2.5x2.2 mm.
3. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



2. Dimension



Recommended PC Board Pattern

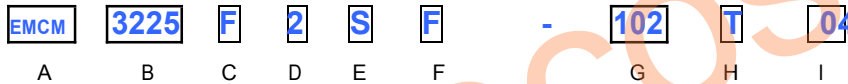


PC board should be designed so that products can prevent damage from mechanical stress when warping the board. Products shall be positioned in the sideways direction against the mechanical stress to prevent failure.

Series	A(mm)	B(mm)	C(mm)	D1(mm)	D2(mm)	E(mm)	G1(mm)	G2(mm)	H(mm)	L(mm)
3225F2SF	3.2±0.2	2.5±0.2	2.2±0.2	0.8±0.1	0.9±0.1	0.15±0.1	1.6	0.6	3.5	4.4

Units: mm

3. Part Numbering



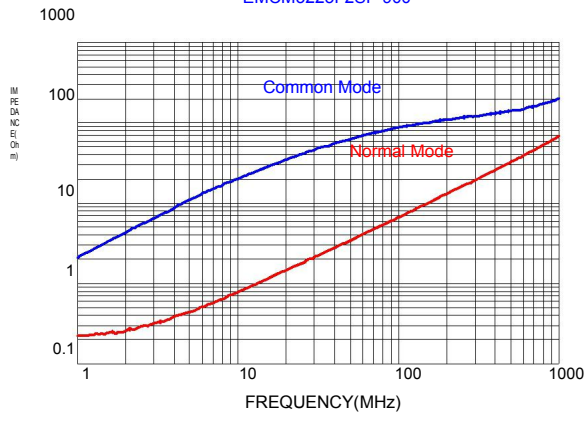
- A: Series
- B: Dimension
- C: Material Ferrite Core
- D: Number of Lines 2=2 lines
- E: Type S=Shielded , N=Unshielded
- F: Lead free type
- G: Impedance 102=1000Ω
- H: Packaging T=Taping and Reel
- I: Rated Current 04=400mA

4. Specification

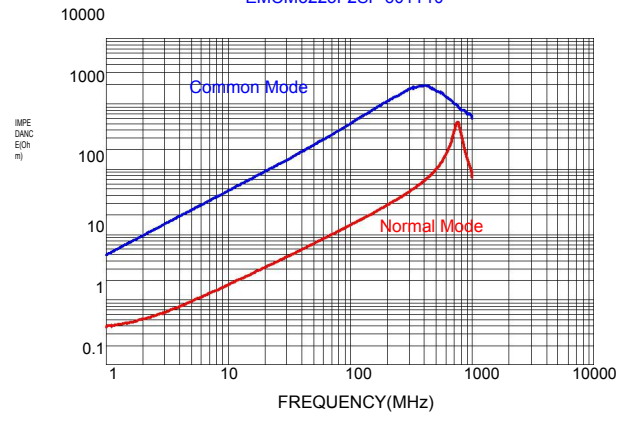
TOCOET Part Number	Common mode Impedance (Ω)	Test Frequency (MHz)	DC Resistance (Ω) max.	Rated Current (mA)max.	Rated Volt. (Vdc)max.	Withstand Volt. (Vdc) max.	IR (Ω) min.
EMCM3225F2SF-900T10	90±25%	100	0.050	1000	50	125	10M
EMCM3225F2SF-601T10	600±25%	100	0.20	1000	50	125	10M
EMCM3225F2SF-102T04	1000±25%	100	0.30	400	50	125	10M

TOCOET

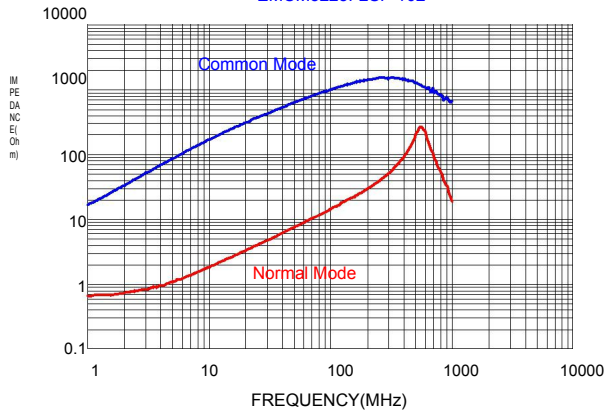
EMCM3225F2SF-906



EMCM3225F2SF-601T10



EMCM3225F2SF-102



www.tocosc.com

Wire Wound Type Common Mode Filter

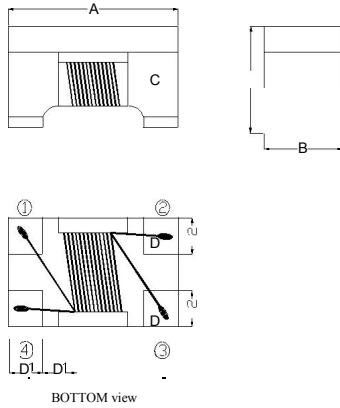
EMCM4532F2SF-SERIES

1. Features

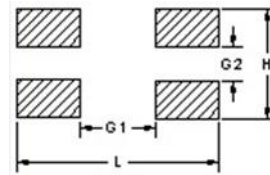
1. High common mode impedance at high frequency cause excellent noise suppression performance.
2. EMCM4532F2SF series realizes small size and low profile. 4.5x3.2x2.8 mm.
3. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



2. Dimension



Recommended PC Board Pattern

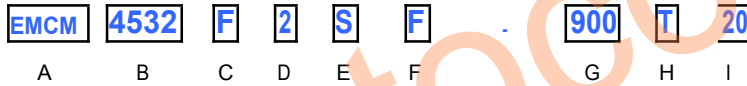


PC board should be designed so that products can prevent damage from mechanical stress when warping the board. Products shall be positioned in the sideway direction against the mechanical stress to prevent failure.

Series	A(mm)	B(mm)	C(mm)	D1(mm)	D2(mm)	L(mm)	H(mm)	G1(mm)	G2(mm)
4532F2SF	4.5±0.2	3.2±0.2	2.8±0.2	1.0±0.1	1.2±0.1	4.8	3.8	2.5	0.7

Units: mm

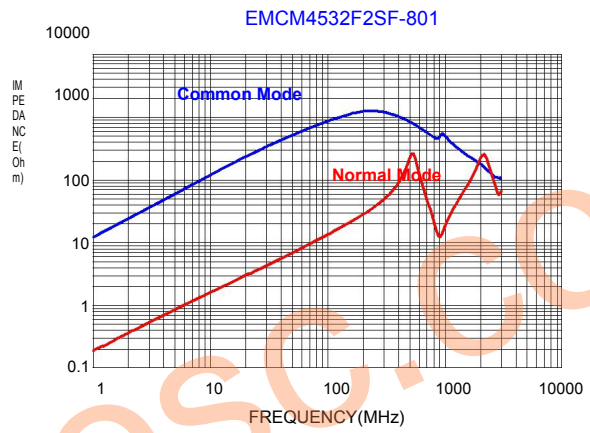
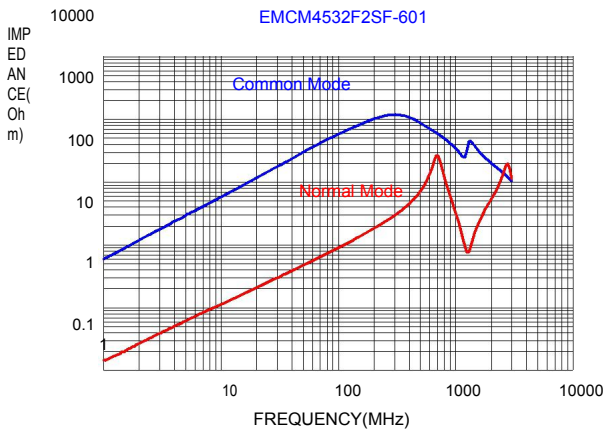
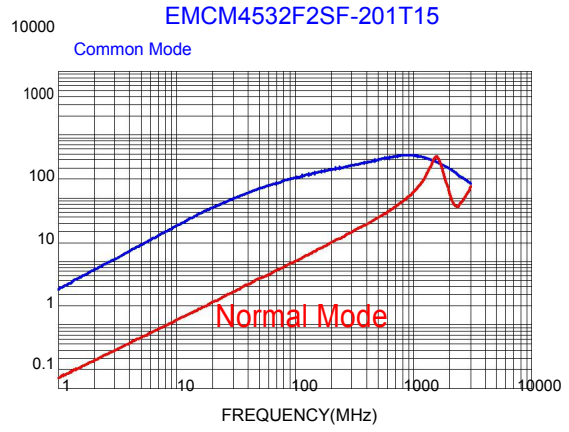
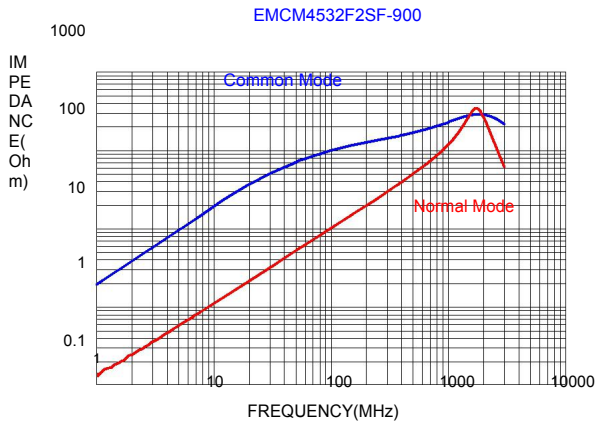
3. Part Numbering



- A: Series
- B: Dimension
- C: Material Ferrite Core
- D: Number of Lines 2=2 lines
- E: Type S=Shielded , N=Unshielded
- F: Lead free
- G: Impedance 900=90Ω
- H: Packaging T=Taping and Reel
- I: Rated Current 20=2000mA

4. Specification

TOCOET Part Number	Common mode Impedance (Ω)	Test Frequency (MHz)	DC Resistance (Ω) max.	Rated Current (mA) max.	Rated Volt. (Vdc) max.	Withstand Volt. (Vdc) max.	IR (Ω) min.
EMCM4532F2SF-900T20	90±25%	100	0.05	2000	50	125	10M
EMCM4532F2SF-201T15	200±25%	100	0.10	1500	50	125	10M
EMCM4532F2SF-601T15	600±25%	100	0.24	1500	50	125	10M
EMCM4532F2SF-801T10	800±25%	100	0.24	1000	50	125	10M



www.tocosc.com