新多智

CUSTOMER'S PRODUCT NAME:

EMTEK PRODUCT NAME:

CMF4532F-Series

THIS SPECIFICATION IS:

「FULLY ACCEPTED

DENIED

ACCEPTED UNDER THE FOLLOWING CONDITIONS

SIGNATURE: DATE:

NAME(PRINT):

TITLE:



SPEC. NO: T-0602-102D

FACTORY:

39,Chingao Rd.,(305)Hsinpu, Hsinchu Hsien,Taiwan,R.O.C

TEL: 03-5894-433 FAX: 03-5894-523

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SPEC. NO.





1. Scope

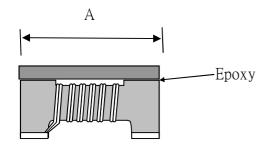
This specification applies ferrite Chip common mode filters CMF4532F-Series to be delivered to user.

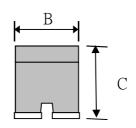
2. Product Identification

<u>CMF</u> 4532 F - 601 - <u>2P</u> - <u>T</u> (1) (2) (3) (4) (5) (6)

- (1) Product name
- (2) Shapes and dimensions
- (3) Application
- (4) Impedance [at 100MHz] 601:600 Ω
- (5) Number of Line 2P:2-Line
- (6) Taping Type

3. Shapes and Dimensions [Dimensions in mm]

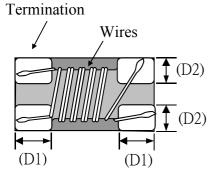


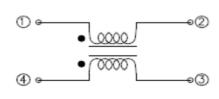


A: $4.5 \pm 0.2 \text{ mm}$ B: $3.2 \pm 0.2 \text{ mm}$

C: $2.8 \pm 0.2 \text{ mm}$ D1: $1.0 \pm 0.1 \text{ mm}$

 $D2 : 1.2 \pm 0.1 \text{ mm}$





| Drawn by | Checked by | Approved by |
|----------|----------------------|-------------|
| Cindy | Zheny Jul 20 2016 | 70202016 |

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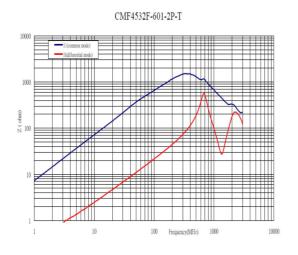
4. Electrical Characterisitics

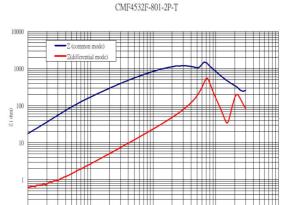
4-1 Electrical Spec.

| Our Product Part Number | Common-Mode Impedance Z(Ω) at 100MHz | DC Resistance Rdc(Ω) Max. | Rated Voltage Vdc(V) | Insulation Resistance (MΩ)Min. | Withstand Voltage Vdc(V) | Rated Current Idc(mA) Max. |
|-------------------------|--|---------------------------------|-------------------------|--------------------------------|--------------------------------|-------------------------------|
| CMF4532F-601-2P-T | 600±25% | 0.24 | 50 | 10 | 125 | 1400 |
| CMF4532F-801-2P-T | 800±25% | 0.26 | 50 | 10 | 125 | 1000 |
| CMF4532F-102-2P-T | 1000±25% | 0.30 | 50 | 10 | 125 | 1000 |
| CMF4532F-142-2P-T | 1400±25% | 0.4 | 50 | 10 | 125 | 1000 |
| CMF4532F-252-2P-T | 2500±25% | 0.9 | 50 | 10 | 125 | 200 |

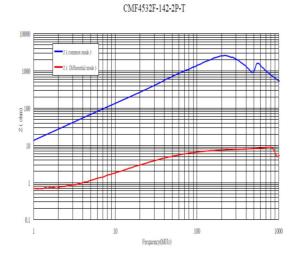
4-2Characteristics(Reference)

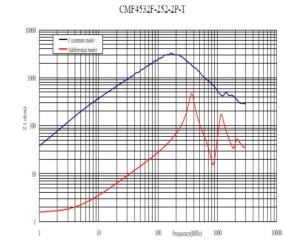
4-2-1 Z v.s. Freq.





Frequency(MHz) 1000





0.1

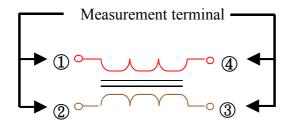
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4-3 Test Equipment

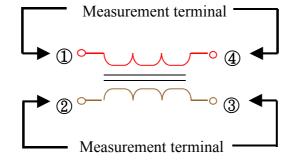
4-3-1 Impedance

Measured by using Agilent E4991A RF Impedance Analyzer.



4-3-2 DC Resistance

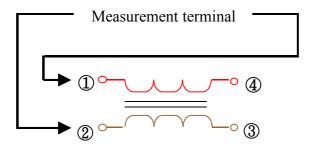
Measured by using Chroma 16502 mill ohm meter.



4-3-3 Insulation Resistance

Measured by using Chroma 19073

Measurement voltage: 50v.



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5.Reliability Test

| | ng temperature : -40 to +125℃ | Storage temp and humidity: 20~25℃,60%RH max. |
|---------------|--|---|
| Item | Specifications | Test conditions |
| Solderability | It can be connected on the | Apply cream solder to the test circuit board. |
| | Recommendation soldering condition. | It is mounted on the recommendation soldering condition. |
| | | Dip pads in flux and dip in solder pot(96.5 Sn/3.5 Ag |
| | | solder) at 255°C ±5°C. |
| | | |
| Solder Heat | Components should have not | The device should be reflow soldered on PCB |
| Resistance | evidence of electrical and | Preheating: 150°C, 60 secs |
| | mechannical damage | Solder temperature: Peak 260±5°C for 10secs |
| | Impedance: within ±15% of | Solder Composition: 96.5Sn/3.5Ag |
| | initial value | |
| | | |
| Terminal | The terminal electrode and the ferrite | Solder a chip to test substrate, and then laterally apply a |
| strength | must not be damaged. | load 1.8Kg in the arrow direction. |
| <i>5</i> . | S | |
| | | |
| | | φ1.0 |
| | | |
| | | Test Board |
| | | |
| High | Appearance : Ferrite shall not be | Temperature : $+125\pm2^{\circ}$ C |
| temperature | damaged. | Testing time: 168±12 hours |
| resistance | | Measurement : After placing for 24 hours min. |
| | initial value. | |
| Humidity | insulation resistance: $>10(M\Omega)$ | Temperature : $+60\pm2^{\circ}$ C |
| resistance | DC resistance : standard value | Humidity: 90 to 95%RH |
| | inside. | Testing time: 168±12 hours |
| | | Measurement: After placing for 24 hours min. |
| Thomas 1 | | T |
| Thermal cycle | | Temperature: -40°C,+125°C |
| Cycle | | kept stabilized for 30 minutes each. |
| | | Cycle: 10 cycle |
| | | Measurement : After placing for 24 hours min. |
| | | 1 cycle |
| | | 30 min. |
| | | +125°C + 30 min. / |
| | | |
| | | |
| | | |
| | | |
| | | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |
| | | -40°C 30 min. |
| | | |

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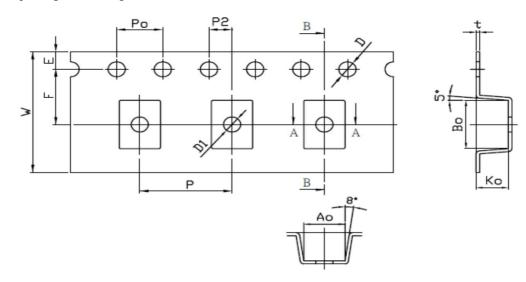
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| Item | Specifications | Test conditions |
|-------------|---------------------------------------|--|
| Low | Appearance: Ferrite shall not be | Temperature : -40±2°C |
| temperature | damaged. | Testing time: 168±12 hours |
| resistance | | Measurement: After placing for 24 hours min. |
| | initial value. | |
| | insulation resistance: $>10(M\Omega)$ | |
| | DC resistance : standard value | |
| | inside. | |
| | | |

6.Packaging

The packaging must be done not to receive any damage during transporting and storing

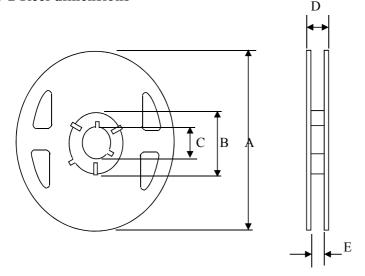


(Dimensions in mm)

| Symbol | W | P | Е | F | P2 | D | D1 | Po | 10Po | Ao | Во | Ko | t |
|-----------|-------|------|------|-------|-------|-------|------|------|-------|------|------|------|-------|
| Dimension | 12.00 | 8.00 | 1.75 | 5.50 | 2.00 | 1.50 | 1.50 | 4.00 | 40.00 | 3.57 | 4.80 | 2.80 | 0.30 |
| SPEC. | ±0.1 | ±0.1 | ±0.1 | ±0.05 | ±0.05 | +0.10 | ±0.1 | ±0.1 | ±0.2 | ±0.1 | ±0.1 | ±0.1 | ±0.05 |

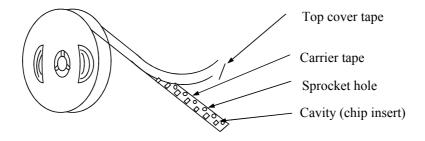


6-2 Reel dimensions



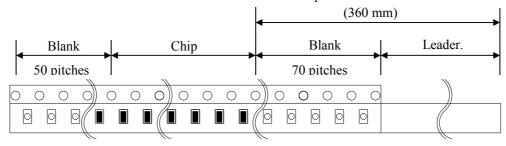
| (| Dimensions in mm) |
|--------|--------------------|
| Symbol | T |
| A | 180 |
| В | 60 |
| С | 13 |
| D | 16 |
| E | 13.2 |

6-3 Tapping figure



6-4 Packaging Form

There shall not continuation more than two vacancies of the product.



Material of carrier tape : Polystyrene Material of cover tape : Polyester

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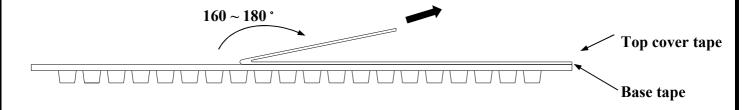


6-5 Cover Tape Peel Strength

The force for tearing off cover tape is $0.05\sim0.69(N)$ in the arrow direction at the following conditions:

Temperature : $5 \sim 35^{\circ}$ C Humidity : $45 \sim 85\%$

Atmospheric pressure: 860 ~ 1060 hpa

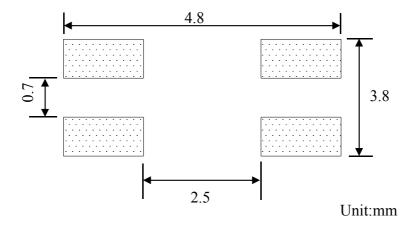


6-6 Packing Quantity

 $\phi 180 \text{ mm} \text{ reel T type} : 500 \text{ pcs./reel}$

7. Recommended Soldering Conditions (Please use this product by reflow soldering) 7-1 Recommended Footprint

Termination Number: Please refer to the equivalent circuit in chapter 3.



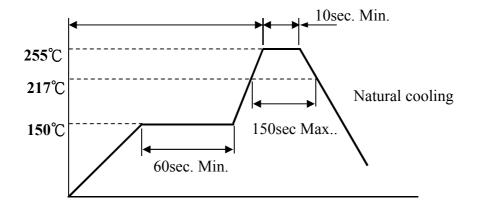
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7-2 Recommended Reflow Pattern

Reflow: until two times



7-3 Iron Soldering

Use a solder iron of less than 30W when soldering ,do not allow the soldering iron tip directly touch the ferrite body outside of terminal electrode.

5 seconds max. at 260° C.

8. Attention in Case of Using

In case of using product ,please avoid following matters:

Splashing water or salt water

Dew condenses

Toxic gas (Hydrogen sulfide, Sulfurous acid, Chlorine, Ammonia)

Vibrations or shocks which exceed the specified condition

Please be careful for the stress to this product by board flexure or something after the mounting.

9. Others

- 9-1 Operating temperature range : $-40 \sim +125^{\circ}$ C
- 9-2 Storage condition : Temperature $20\sim25^{\circ}$ C , Relative Humidity $40\%\sim60\%$
- 9-3 Recommended wire wound inductors should be used within 6 months from the time of delivery.

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TCM0806G-350-2P-T TCM0806G-650-2P-T B2013FNLT IND-0110 UAL21VR0802000 UALSC023000000 UALSC1020JH000
UALSC1520JH000 UALSU10VR15019 UALSU9VD070100 36-00037 5701610000 UALW21HS200290 UALW21HS072450
UALSU9HF050500 UALSU9H0208000 UAL24VK06450CH PLT10HH401100PNB PLT10HH1026R0PNB PE-67531 TLH10UB 113 0R5
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