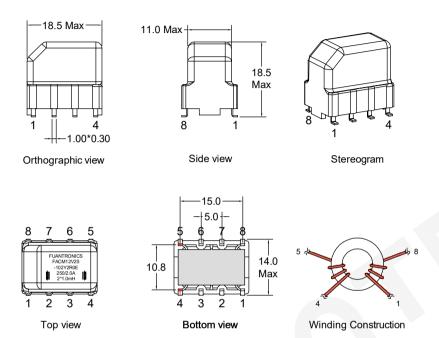
P/N: FACM12V2S-102Y2R0E

FUANTRONICS

Outline Dimensions(Unit:mm)



Remarks:

1. Products need to be potted.

Electrical Characteristics(at 25°C)

Inductance: L1-8=4-5= 1.0mH +50%/-30%, at 10KHz, 0.1V.

Leakage Inductance: L1-8&4-5= 13uH Typ.

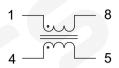
Rated current: 2.00Amps.

D.C.Resistance: 1-8= 0.080 ohms Typ.

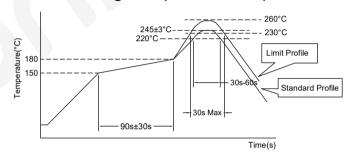
4-5= 0.080 ohms Typ.

Turns Ratio: Coil:Coil= 1:1±2%, at 20KHz, 1V. Hipot: Coil-Coil: 1500VAC/5mA/2Second.

Electronical Schematic



Recommended Soldering Temperature Graph.



	Standard Profile	Standard Profile
Pre-heating	150~180°C	,90s±30s
Heating	above 220°C,30s-60s	above 240°C,30s Max
Peak temperature	245°C±3°C	260°C,10s
Cycle of reflow	2 times	2 times

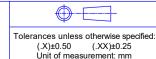
List of UL Certificate:

Part Name	Mat'l Description	Supplier	UL Number
Case EB16-001S/PA66(orange)		Zhejiang Juner New Materials Co Ltd	E204321
Copper wire	2UEW-F/155C	Elektrisola Hangzhou Co Ltd	E258243
Core	Ferrite core(orange)	Su Zhou Tian Ming Magnetic	N/A
Ероху	808A-R-B(red soft glue)	Dong Guan Shi Pai Hua Chuang Material Fty	E304477
Spacer	0.50mm/FR-4	Kingboard Laminates Holdings Ltd	E123995

REV	DESCRIPTION	APPD	DATE

Tianchang Fuan Electronic Co Ltd www.fuantronics.net TEL: +86-550-7814888

FAX:+86-550-7831133



Make: Qiumei.Liu **DRAWING TITLE CURRENT-COMPENSATED RING** Checked: Beson. zhan CORE DOUBLE CHOKES Approved: Anson. zhan

Customer P/N: Document/Rev: 00 Specification Sheet: 1 of 1 Material Number: A31CM012S2B0 Date of Recognition: Nov./18/2023

FUANTRONICS

Reliability Testing:

Ltem	Specified value	Test methods
High temperature Storage test Reference documents: MIL-STD-202G Method 108A	1.No case deformation or change in appearance. 2.ΔL/L≤10%. 3.ΔQ/Q≤30%. 4.ΔDCR/DCR≤10%.	Temperature:85±2°C Time:96±2 hours. Tested not less than 1 hour, not more than 2 hours at room temperature. Temperature High temperature Room Temp 0 98H Test Time
Low temperature Storage test. Referencedocuments: IEC 68-2-1A 6.1 6.2	1.No case deformation or change in appearance. 2.ΔL/L≤10%. 3.ΔQ/⊆30%. 4.ΔDCR/DCR≤10%.	Temperature:25±2°C Time:96±2 hours. Tested not less than 1 hour, not more than 2 hours at room temperature. Room 96H Test Time 1.00 Test Time
Humidity test Reference Documents: MIL-STD-202G Method 103B	1.No case deformation or change in appearance. 2.ΔL/L≤10%. 3.ΔQ/Q≤30%. 4.ΔDCR/DCR≤10%.	1.Dry oven at a temperature of 40°±5°C for 24 hours. 2.Measurements At the end of this period 3.Exposure:Temperature:40±2°C,Humidity: 93±3%RH Time:96±2 hours. 4.Tested while the specimens are still in the chamber. 5.Tested not less than 1 hour, nor more than 2 hours at room temperature. **Temp8Humidity** **Hight Emp8Humidity** **Hight Em
Heat endurance of Reflow soldering	1.No case deformation or change in appearance. 2.ΔL/L≤10%. 3.ΔQ/Q≤30%. 4.ΔDCR/DCR≤10%.	Preheat:150°C,60 second. Solder:Sn/Ag/Cu. Solder:Temperature:260±5°C. Flux:Rosin flux. Reflow peak time 10 second at 260°C

Ltem	Specified value	Test methods
Thermal shock test Reference documents: MIL-STD-202G Method 107G	1.No case deformation or change in appearance. 2.△L/L≤10%. 3.△Q/Q≤30%. 4.△DCR/DCR≤10%. For T:weighe≤28g:15 Min 28g≤weight≤136g:30 Min	First-40°C for T time,next+125°C Ttime as 1 cycle. Go through 20 cycles.
Solderability test Reference documents: MIL-STD-202G Method 208H IPC J-STD-002B	Terminals area must have 95% Min. Solder coverage.	Dip pads in flux then dip in solder pot at 245±5°C for 5 second. Soler:Sn(93.5)Ag(3.5). Flux:Rosin flux.
Vibration test Reference documents: MIL-STD-202G Method 201A	1.No case deformation or change in appearance. 2.∆L/L≤10%. 3.∆Q/Q≤30%. 4.∆DCR/DCR≤10%.	Apply frequency 10~55Hz. 0.75mm amplitude in each of perpendicular direction for 2 hours.(total 6 hours).
Drop test Reference documents: MIL-STD-202G Method 203G	1.No case deformation or change in appearance. 2.△L/L≤10%. 3.△Q/Q≤30%. 4.△DCR/DCR≤10%. For T:weighe≤28g:15 Min 28g≤weight≤136g:30 Min	Packaged & Drop down from 1m with 981m/s2(100G)attitude in 1 angle 1 ridges & 2 surfaces orientations.
Terminal strength push test Reference documents: JIS C 5321:1997	Pulling test: DEFINE:A:sectional area of terminal A≤8(Sq M) Force≥5N time:30sec 8(Sq M) <a≤20(sq 20(sq="" bending="" force≥10n="" force≥20n="" m)="" m)<a="" not="" off<="" on="" pcb,after="" products="" pull="" pulling="" should="" soldering="" td="" terminal="" test,="" test:="" testand="" the="" time:10sec=""><td>Bend the testing PCB at middle point, the deflection shall be 2mm Pulling test X R0.5 Bending test</td></a≤20(sq>	Bend the testing PCB at middle point, the deflection shall be 2mm Pulling test X R0.5 Bending test

REV	DESCRIPTION	APPD	DATE

Tianchang Fuan Electronic Co Ltd www.fuantronics.net TEL: +86-550-7814888 FAX:+86-550-7831133



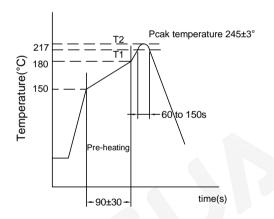
	Make: Qiumei.Liu	
erwise specified:	Checked: Beson. zhan	
XX)±0.25 ment: mm	Approved: Anson. zhan	

DRAWING TITLE	Customer Name:	
CURRENT-COMPENSATED RING	Document/Rev:	
CORE DOUBLE CHOKES	Specification Sheet:	
Material Number:	Date of Recognition:	

FUANTRONICS

Ltem	Specified value	Test methods
Resistance to solvent test Reference documents: IEC 68-2-45:1993	No case deformation or change in appearance,or obliteration of marking	To dip parts into IPA solvent for 5±0.5Min, then drying them atroom temp for 5 Min,at last,to brushing making 10 times.
Electronic characteristic test of major products	Refer to catalogue of specific products	Refer to catalogue of specific products
Overload test Reference documents:	1.During the test no smoke,no peculiar,smell, no fire	Apply twice as rated current for 5 minutes.

Recommended solderability temperature profile:



Use rosin-based flux Don't use high acidic flux with halide content exceeding 0.2(wt)% (chlorine conversion value). Use lead-free solder, use Sn-3.0Ag-0.5Cu solder

Standard thickness of solder paste:0.12-0.15mm

				Tianchang Fuan Electronic Co Ltd www.fuantronics.net TEL: +86-550-7814888
REV	DESCRIPTION	APPD	DATE	FAX:+86-550-7831133

— —	
Tolerances unless otherwise s	

nces unless otherwise specified:	Checked: Beson. z	
(.X)±0.50 (.XX)±0.25 Unit of measurement: mm	Approved: Anson.	

Make: Qiumei.Liu

DRAWING TITLE
CURRENT-COMPENSATED RING CORE DOUBLE CHOKES

Material Number:

	Customer Name:
	Document/Rev:
	Specification Sheet:
	Date of Recognition: