

ECN/PCN No.: M1225

For Manufacturer

Product Description: Multilayer Ferrite Chip Bead	Abracon Part Number / Part Series: ACML-0603 Series	☐ Documentation only ☒ ECN ☐ EOL	☒ Series ☐ Part Number
Affected Revision: G	New Revision: H	Application:	☐ Safety ☒ Non-Safety

Prior to Change:

Part Number ACML-0603- Impedance Code	Impedance	Frequency	DC resistance	Rated Current
Units	$\Omega \pm 25\%$	MHz	Ω max	mA max
Symbol	Z	F	R _{DC}	I _R
ACML-0603-060	6	100	0.05	1000
ACML-0603-110	11	100	0.05	1000
ACML-0603-190	19	100	0.05	1000
ACML-0603-220	22	100	0.20	800
ACML-0603-310	31	100	0.05	500
ACML-0603-500	50	100	0.08	500
ACML-0603-600	60	100	0.30	600
ACML-0603-800	80	100	0.16	200
ACML-0603-101	100	100	0.20	200
ACML-0603-121	120	100	0.40	600
ACML-0603-181	180	100	0.30	200
ACML-0603-221	220	100	0.45	500
ACML-0603-301	300	100	0.35	200
ACML-0603-331	330	100	0.50	500
ACML-0603-471	470	100	0.55	400
ACML-0603-501	500	100	0.45	200
ACML-0603-601	600	100	0.45	200
ACML-0603-102	1000	100	0.80	200
ACML-0603-152	1500	100	0.80	200
ACML-0603-202	2000	100	1.00	200

1.1 Test Conditions and Equipments

I_R: Rated current applied when the chip surface temperature rise just 20°C against chip surface temperature. Electric power supplier, Electric current meter, Thermometer.

Z: Impedance Analyzer HP4291 or equivalent, 50mV.

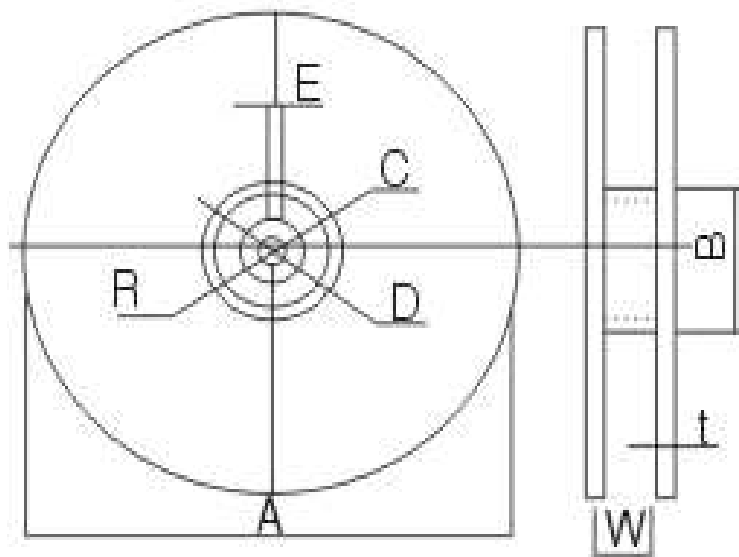
DCR: LCR Meter HP4263A or equivalent

1.3 Storage Temperature

-55°C to +125°C

2.0 MSL level: 1

6.0 Packing



A	178±2
B	60±2
C	13.0±0.5
D	21.0±0.8
E	2.0±0.5
W	10.0±1.15
t	1.2±0.2
R	1.0±0.25

Dimension: mm

After Change:

Part Number ACML-0603- Impedance Code	Impedance	Frequency	DC resistance	Rated Current
Units	$\Omega \pm 25\%$	MHz	Ω max	mA max
Symbol	Z	F	R _{DC}	I _R
ACML-0603-050	0~15	100	0.10	800
ACML-0603-060	0~15	100	0.05	2000
ACML-0603-100	5~15	100	0.25	500
ACML-0603-110	0~15	100	0.05	2000
ACML-0603-220	22	100	0.20	800
ACML-0603-310	31	100	0.35	600
ACML-0603-470	47	100	0.55	300
ACML-0603-500	50	100	0.10	500
ACML-0603-600	60	100	0.30	600
ACML-0603-750	75	100	0.7	300
ACML-0603-800	80	100	0.40	600
ACML-0603-101	100	100	0.20	300
ACML-0603-121	120	100	0.40	600
ACML-0603-181	180	100	0.30	300
ACML-0603-221	220	100	0.45	500
ACML-0603-301	300	100	0.50	500
ACML-0603-331	330	100	0.50	500
ACML-0603-421	420	100	0.55	400
ACML-0603-471	470	100	0.55	400
ACML-0603-501	500	100	0.60	200
ACML-0603-601	600	100	0.60	200
ACML-0603-102	1000	100	0.80	200
ACML-0603-152	1500	100	0.80	200
ACML-0603-202	2000	100	1.00	200
ACML-0603-222	2200	100	1.00	200
ACML-0603-252	2500	100	1.20	200
ACML-0603-272	2700	100	1.4	200

1.2 Test Conditions and Equipment

I_R: Rated current applied when the chip surface temperature rise just 20°C against chip surface temperature.
Electric power supplier, Electric current meter, Thermometer.

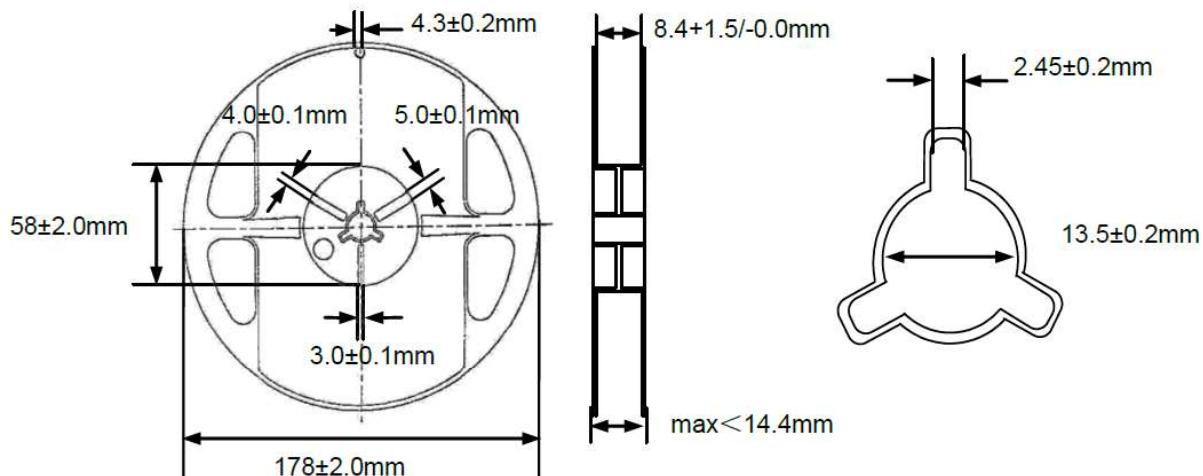
Z: High Accuracy RF Impedance/Material Analyzer-E4991A or equivalent.

DCR: High Accuracy Milliohmmeter-HP4338B or equivalent.

3.0 Storage Temperature

-10°C~+40°C and RH 70% (Max.).

6.0 Packing



Cause/Reason for Change: Update to the rated current and DCR for some parts, new devices added to the series, 1 part has been EOL'd (ACML-0603-190-T), storage temperature range, and reel dimension graphics.

Change Plan

Effective Date: 4/1/2021	Additional Remarks:
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Change Declaration: The change does not affect form or fit of the devices. Update to the rated current and DCR for some parts, new devices added to the series, 1 part has been EOL'd (ACML-0603-190-T), storage temperature range, and reel dimension graphics. Refer to **Partial ECN-EOL #M1225 ACML-0603-190-T**. <https://abracon.com/downloads/ECN-PCN/Partial-ECN-EOL-M1225-ACML-0603-190-T.pdf>

Issued Date: 4/1/2021	Issued By: <i>Ahmed Alamin</i>	Issued Department: Engineering
Approval: <i>Syed Raza</i> Engineering VP	Approval: <i>Reuben Quintanilla</i> Quality Director	Approval: <i>Ying Huang</i> Purchasing Director

For Abracon EOL only

Last Time Buy (if applicable):	Alternate Part Number / Part Series:
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Additional Approval:	Additional Approval:	Additional Approval:
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Customer Approval (If Applicable)

Qualification Status:
☐ Approved ☐ Not accepted
Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.

Customer Part Number:	Customer Project:
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Company Name:	Company Representative:	Representative Signature:
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Customer Remarks: