0805 Multilayer Ferrite Chip Bead

ACML-0805

2.00 x 1.25 x 0.85m m

RoHS/RoHS II compliant

FEATURES:

- Multilayer monolithic construction yields high reliability
- Nickel barrier terminations provide excellent solder heat resistance
- Suitable for flow and RoHS reflow soldering

APPLICATIONS:

- Video equipment, audio equipment
- Automotive electrical equipment
- Communication equipment
- OA equipment and other

ELECTRICAL SPECIFICATIONS:

PARAMETERS
Operating temperature: -55°C to + 125°C
Storage temperature : -55°C to + 125°C

Part Number	Impedance	Frequency	DC resistance	Rated Current
Units	Ω ± 25%	MHz	Ω max	mA max
Symbol	Z	F	R_{DC}	I_R
ACML-0805-070	7	100	0.05	2200
ACML-0805-110	11	100	0.05	2000
ACML-0805-170	17	100	0.05	2000
ACML-0805-190	19	100	0.05	2000
ACML-0805-260	26	100	0.05	1500
ACML-0805-310	31	100	0.05	1500
ACML-0805-360	36	100	0.05	1500
ACML-0805-500	50	100	0.05	1000
ACML-0805-600	60	100	0.05	1000
ACML-0805-700	70	100	0.08	1000
ACML-0805-800	80	100	0.10	1000
ACML-0805-101	100	100	0.12	1000
ACML-0805-121	120	100	0.15	800
ACML-0805-151	150	100	0.15	800
ACML-0805-181	180	100	0.20	600
ACML-0805-221	220	100	0.20	600
ACML-0805-301	300	100	0.25	500
ACML-0805-501	500	100	0.30	500
ACML-0805-601	600	100	0.35	500
ACML-0805-751	750	100	0.35	300
ACML-0805-102	1000	100	0.45	300
ACML-0805-122	1200	50	0.50	200
ACML-0805-152	1500	50	0.65	200
ACML-0805-202	2000	50	0.80	200

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

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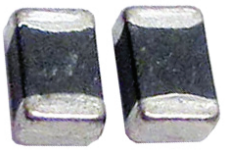


2.00 x 1.25 x 0.85m m

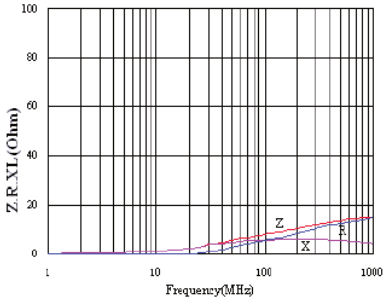
OPTIONS AND PART IDENTIFICATION

ACML-0805 - ☐ - ☐

Impedance Code	Packaging
Please refer to the P/N table	T: Tape and Reel (4kpcs / reel)

FREQUENCY CHARACTERISTICS

ACML-0805-070



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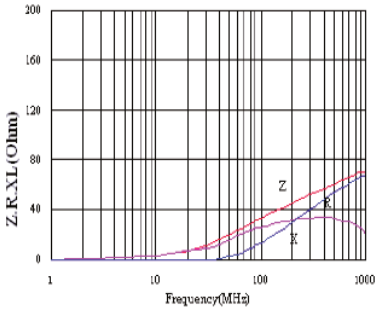

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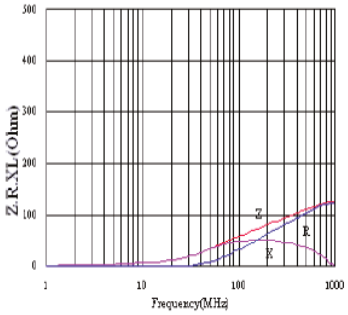

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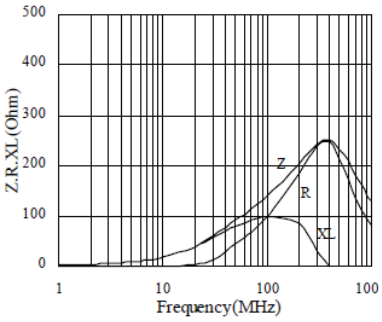

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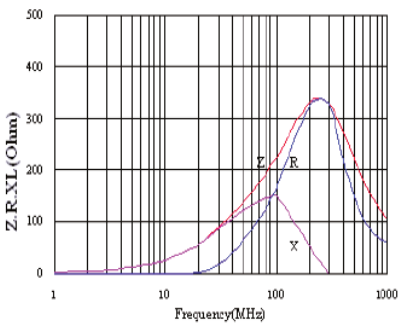

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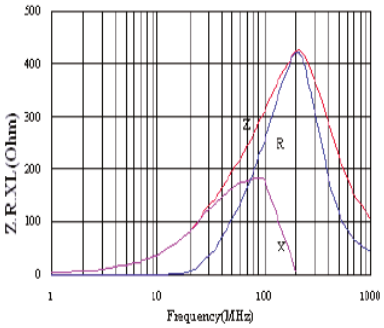

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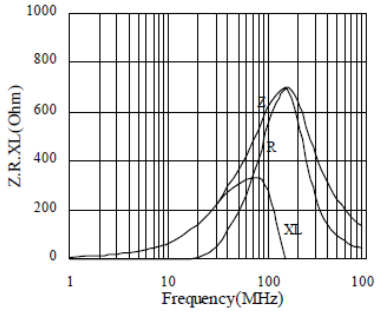

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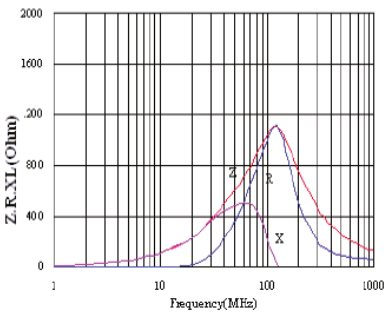

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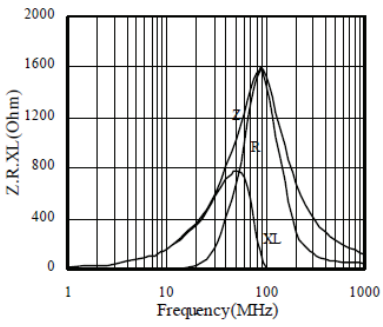

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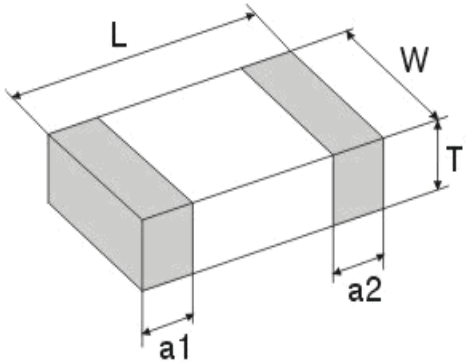
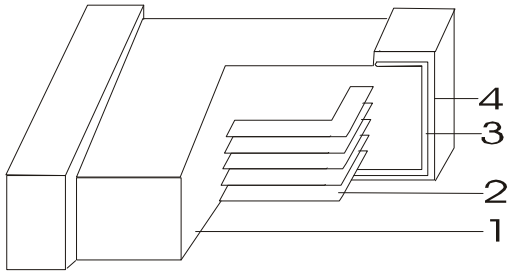
MECHANICAL DIMENSIONS



L	W	T	a1, a2
2.00±0.20	1.25±0.20	0.85±0.20	0.50±0.30

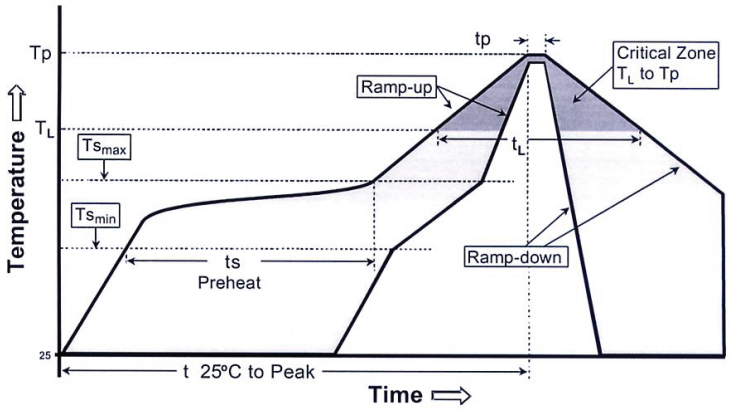
Materials



	Part Name	Material
1	Base Material	Ferrite
2	Internal Conductor	Ag
3	Terminal Electrode	Ag
4	Terminal Electrode	Ni-Sn

Dimension: mm

REFLOW PROFILE



Profile Feature	Lead-Free Assembly
Average Ramp-Up Rate (Tsmax to Tp)	3°C/second max.
Preheat – Temperature Min (Tsmin) – Temperature Max (Tsmax) – Time (tsmin to tsmax)	150 °C 200 °C 60-180 seconds
Time maintained above: – Temperature (TL) – Time (tL)	217 °C 60-150 seconds
Peak/Classification Temperature (Tp) Peak/Classification Time (Tp)	260 °C 3-4 seconds
Time within 5 °C of actual Peak Temperature (tp)	20-40 seconds
Ramp-Down Rate	6°C/second max.
Time 25 °C to Peak Temperature	8 minutes max.

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