ACM-21U

FEATURES:

- Small size and low profile
- Virtually no effect on high speed signals due to suppressed differential mode impedance
- Elimination of common mode noise in high speed, differential mode signal transmission lines such as USB3.0

STANDARD SPECIFICATIONS

Abracon P/N:	ACM-21U
Operating Temperature & Humidity:	-40°C to +105°C
Storage Temperature & Humidity:	-10°C to +40°C, Humidity < 70%RH (In tape and reel)

Part Number	Impedance @100MHz	DCR	I _R	Rated Voltage	Insulation Resistance
Units	$\Omega \pm 25\%$	Ω (max.)	mA	Vdc	$M\Omega$ (min.)
ACM-21U-900	90	0.40	280	20	10

Test Conditions

Impedance (Common mode and differential mode): LCR Meter Agilent 4287A/E4991A **DCR:** Agilent 4338B/34420

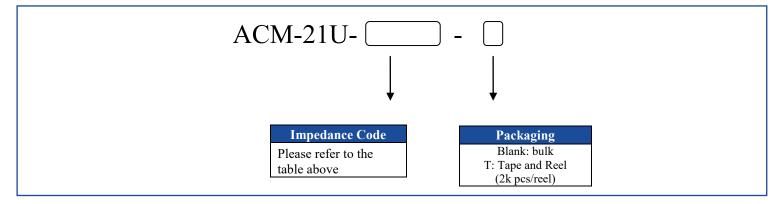
I_R: Electric power, Electrical current meter, Thermometer

Definition of Rated Current (I_R): The direct electric current as chip surface temperature rise just 20° C against chip initial surface temperature.

Insertion Loss: Network Analyzer Agilent E5071C

Insulation Resistance: High resistance meter Agilent 4339B

> **PART IDENTIFICATION:**





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Pb RoHS/RoHS II compliant

> APPLICATIONS:

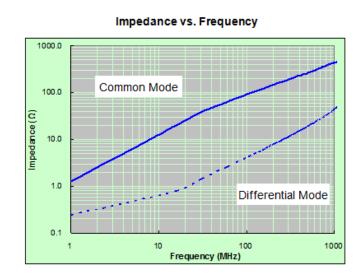
• High speed differential signal lines in USB3.0

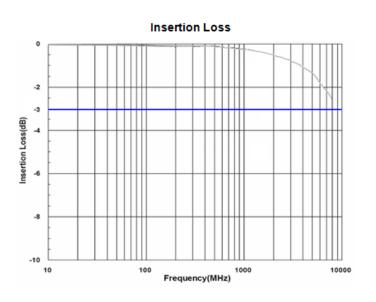


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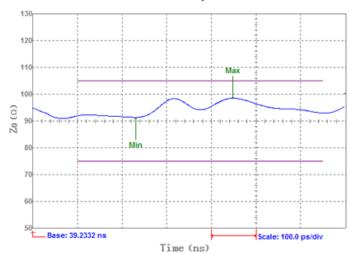
(Pb) RoHS/RoHS II compliant

> ELECTRICAL CHARACTERISTIC CURVE:

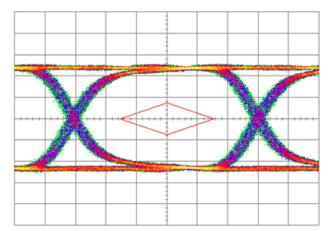




Characteristic Impedance



Eye Diagram in USB3.0





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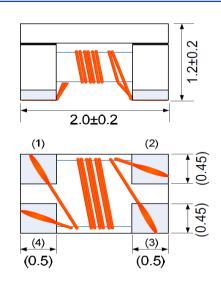
ABRACON IS ISO9001-2015 CERTIFIED

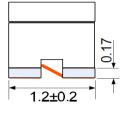


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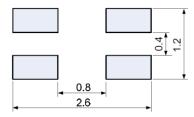
(Pb) **RoHS/RoHS II compliant**

OUTLINE DIMENSIONS:

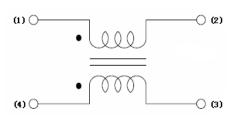




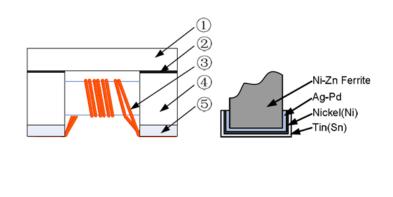
Recommended Land Pattern



Schematic

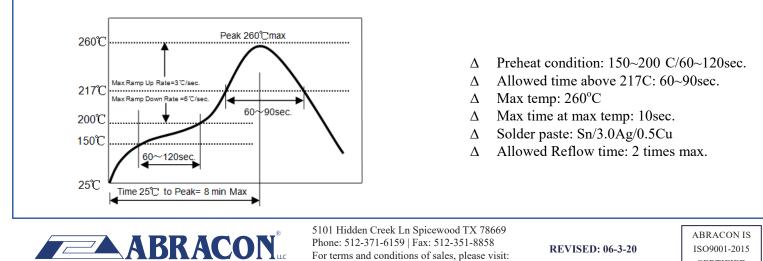


Materials



Material Name Part Name No. (1) Lid Ni-Zn Ferrite (2) Epoxy Epoxy resin Polyurethane system 3 Wire enameled copper wire (4) Ni-Zn Ferrite Core Electrode (5) (Ag-Pd)+Ni+Sn plating structure

REFLOW PROFILE:



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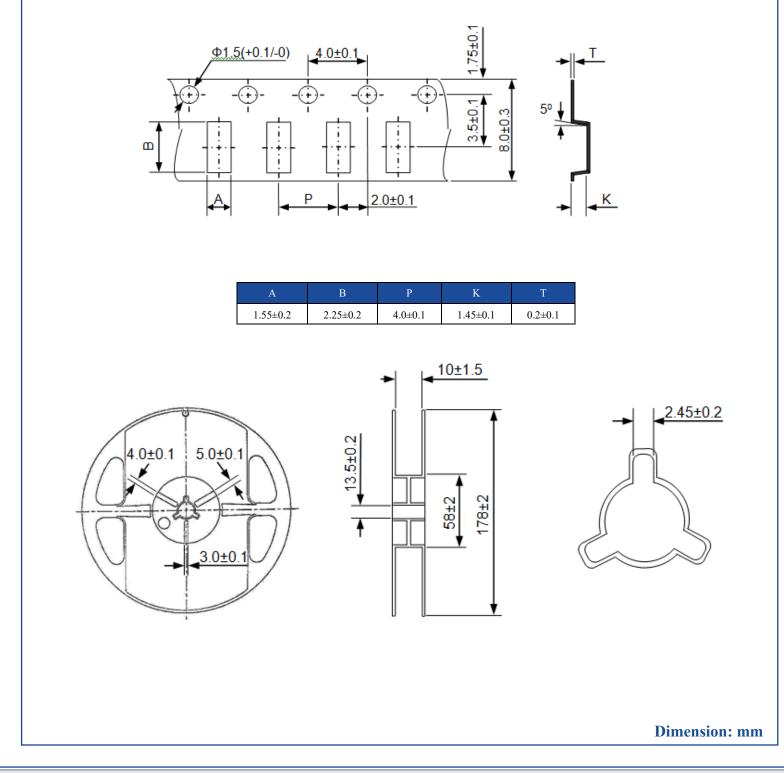
CERTIFIED



ACM-21U

(Pb) RoHS/RoHS II compliant

> TAPE & REEL: 2000pcs/reel



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