





#### > 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

### > APPLICATIONS:

• High speed differential signal lines in USB3.0

#### > STANDARD SPECIFICATIONS

Abracon P/N:	ACM-21U
Operating Temperature & Humidity:	-40°C to $+105$ °C
Storage Temperature & Humidity:	$-10^{\circ}$ C to $+40^{\circ}$ 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	MΩ (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<sub>R</sub>:** Electric power, Electrical current meter, Thermometer

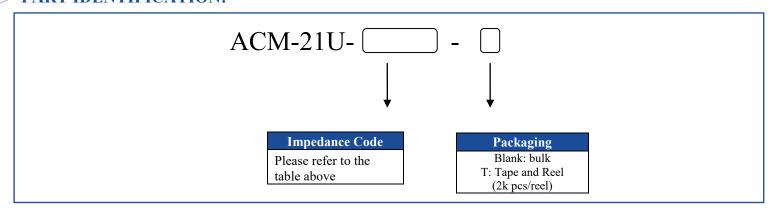
**Definition of Rated Current (I<sub>R</sub>):** The direct electric current as chip surface temperature rise just 20°C

against chip initial surface temperature.

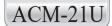
**Insertion Loss:** Network Analyzer Agilent E5071C

**Insulation Resistance:** High resistance meter Agilent 4339B

### > PART IDENTIFICATION:



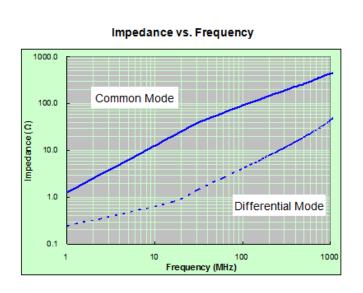


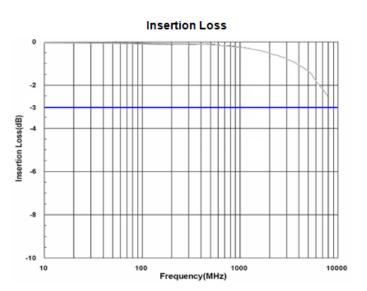


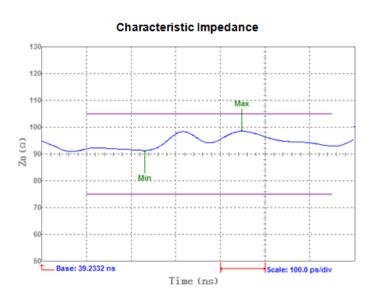


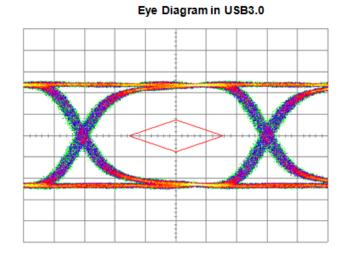


### > ELECTRICAL CHARACTERISTIC CURVE:









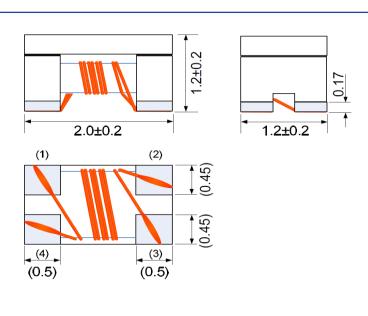


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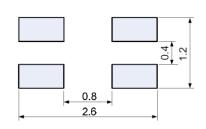




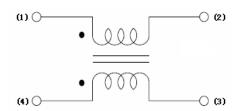
#### > OUTLINE DIMENSIONS:



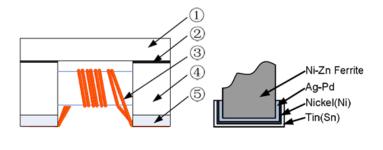
#### **Recommended Land Pattern**



### **Sche matic**

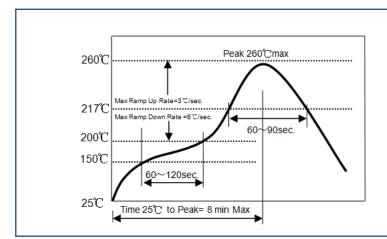


#### **Materials**



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

# > REFLOW PROFILE:



- Δ Preheat condition: 150~200 C/60~120sec.
- $\Delta$  Allowed time above 217C: 60~90sec.
- $\Delta$  Max temp: 260°C
- $\Delta$  Max time at max temp: 10sec.
- Δ Solder paste: Sn/3.0Ag/0.5Cu
- $\Delta$  Allowed Reflow time: 2 times max.

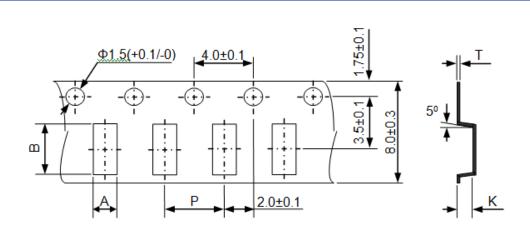


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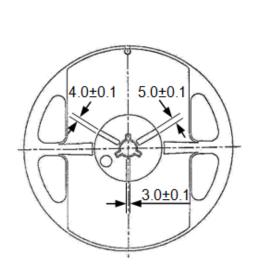


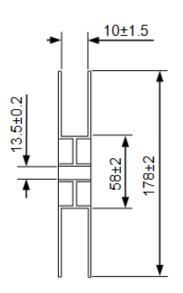


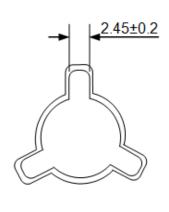
# > TAPE & REEL: 2000pcs/reel



A	В	P	K	T
1.55±0.2	2.25±0.2	4.0±0.1	1.45±0.1	0.2±0.1







**Dimension: mm** 

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