





> 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° 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_R: Electric power, Electrical current meter, Thermometer

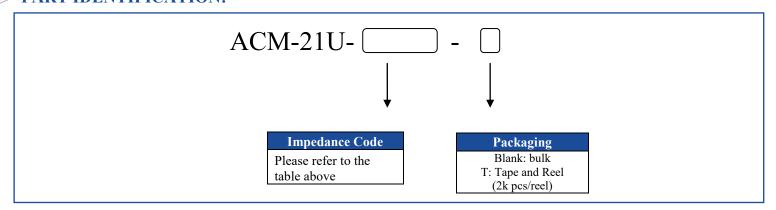
Definition of Rated Current (I_R): The direct electric current as chip surface temperature rise just 20°C

against chip initial surface temperature.

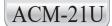
Insertion Loss: Network Analyzer Agilent E5071C

Insulation Resistance: High resistance meter Agilent 4339B

> PART IDENTIFICATION:



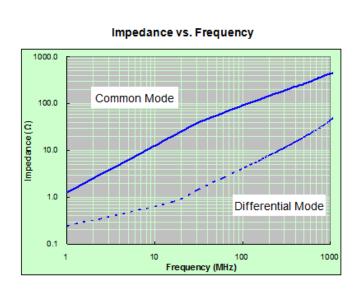


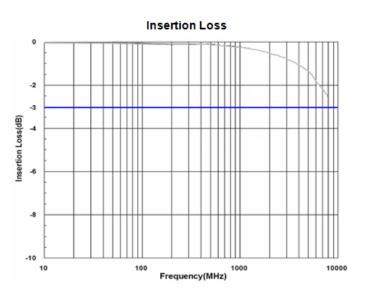


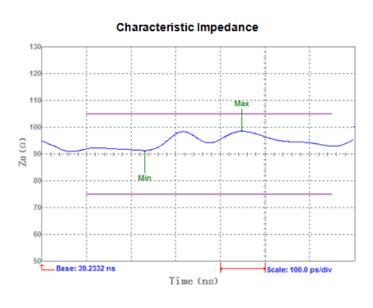


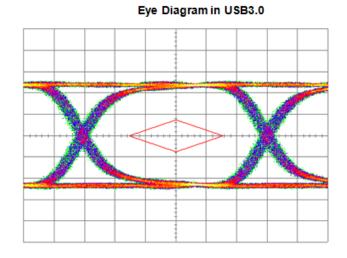


> ELECTRICAL CHARACTERISTIC CURVE:









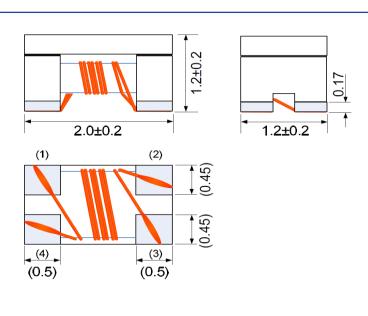


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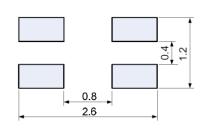




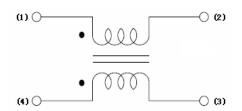
> OUTLINE DIMENSIONS:



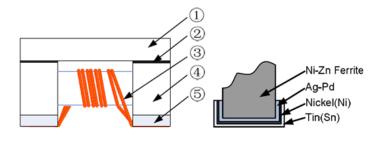
Recommended Land Pattern



Sche matic

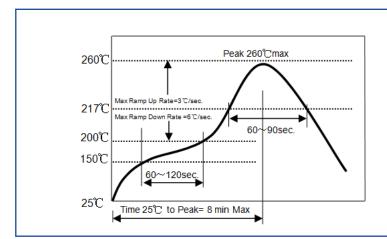


Materials



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.
- Δ Allowed time above 217C: 60~90sec.
- Δ Max temp: 260°C
- Δ Max time at max temp: 10sec.
- Δ Solder paste: Sn/3.0Ag/0.5Cu
- Δ Allowed Reflow time: 2 times max.

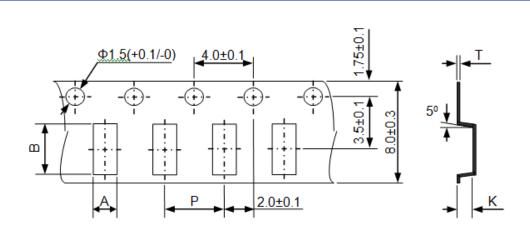


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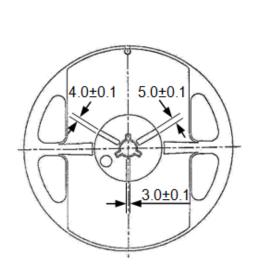


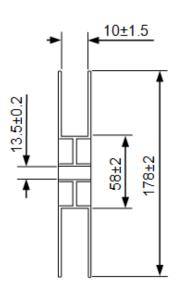


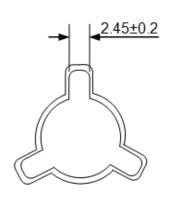
> TAPE & REEL: 2000pcs/reel



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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