

- Ⓢ Meet IEEE802.3bp and OA TC3 v2.0 Requirements
- Ⓢ Approved by major Automotive OEMs
- Ⓢ Meets AEC-Q200 Requirement
- Ⓢ PPAP capable
- Ⓢ Tested with leading PHY partners
- Ⓢ Operating Temperature: - 40°C to +125°C
- Ⓢ Factory IATF-16949 Certified
- Ⓢ Patented Technology
- Ⓢ Open Alliance TC3 test report available

Electrical Specifications 25°C

Part Number	Insertion Loss (dB MAX)		Return Loss (dB MIN)			Common Mode Rejection (dB MIN)				Differential to Common Mode Rejection (dB MIN)			
	10-100MHz	100-400MHz	30-80MHz	200MHz	400MHz	30-80MHz	200MHz	400MHz	1000MHz	1-30 MHz	100 MHz	200 MHz	1000 MHz
AE5002	-1	-1.7	-22	-17	-15	-45	-35	-32	-25	-60	-47	-40	-38

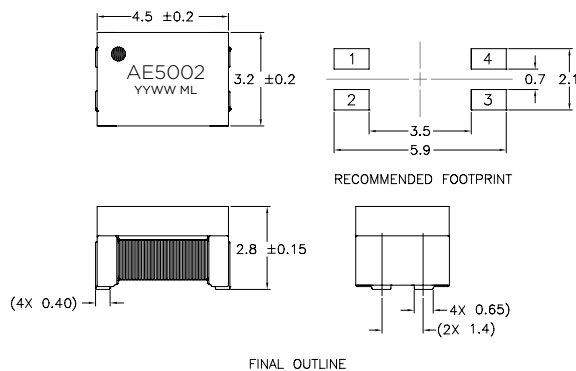
Part Number	Insertion Loss (dB MAX)			Return Loss (dB MIN)			Common Mode Rejection (dB MIN)			Differential to Common Mode Rejection (dB MIN)	
	20MHz	100MHz	400MHz	30-80MHz	200MHz	600MHz	10MHz	30-200MHz	600MHz	1-80 MHz	600 MHz
AE1210	-0.5	-0.7	-1	-27	-22	-19	-23	-42	-15	-65	-47.5

Notes:

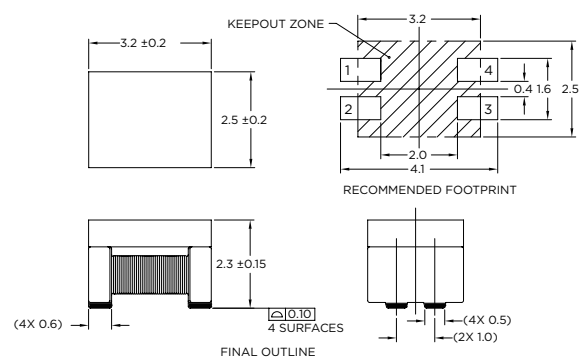
- DCR per winding is 5.0mOhms for AE2002 and 3.5mOhms for AE0100
- Imax for both parts is 100mA
- Voltage rating for both parts is 60V Max

Mechanicals

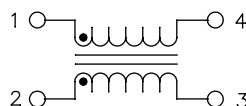
AE5002



AE1210



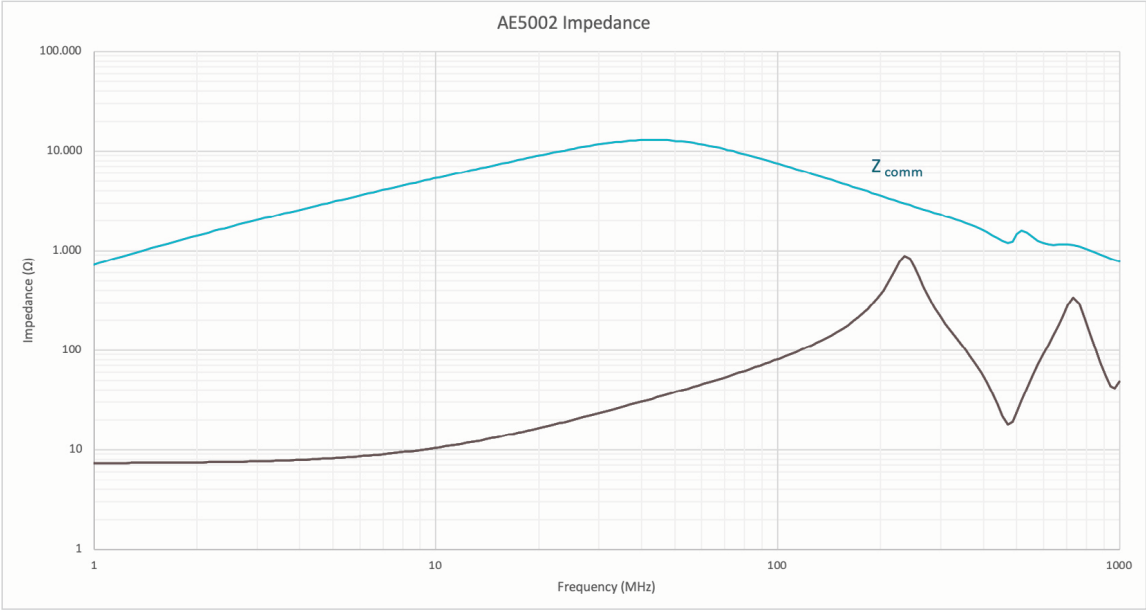
Schematic



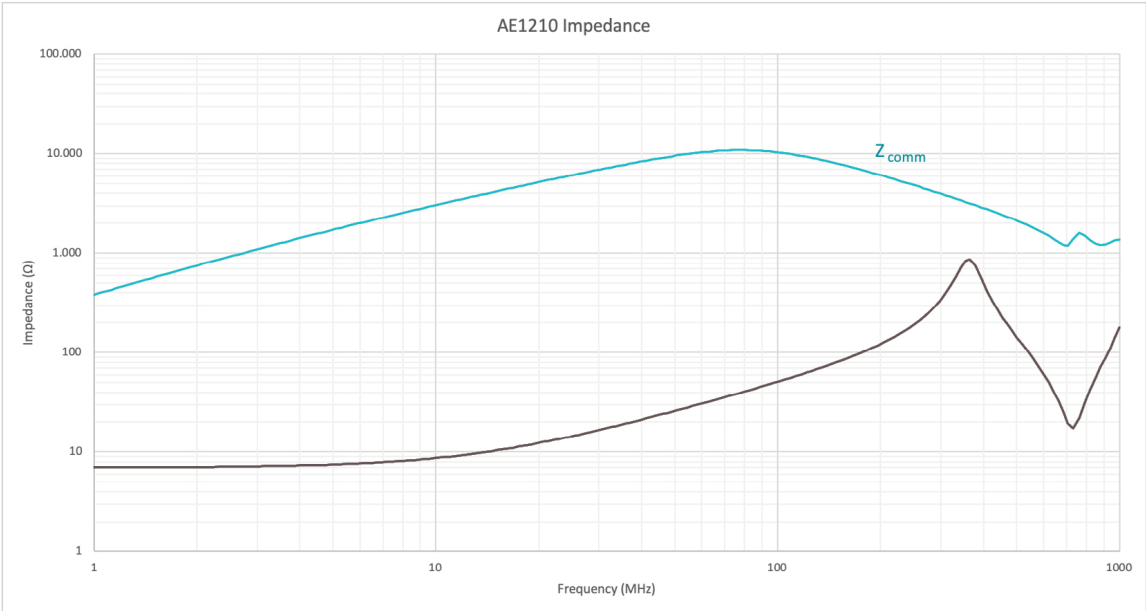
Dimensions: Inches (mm)  
Unless otherwise specified, all tolerances are  $\pm .010$  (0.25)

Impedance Plot

AE5002

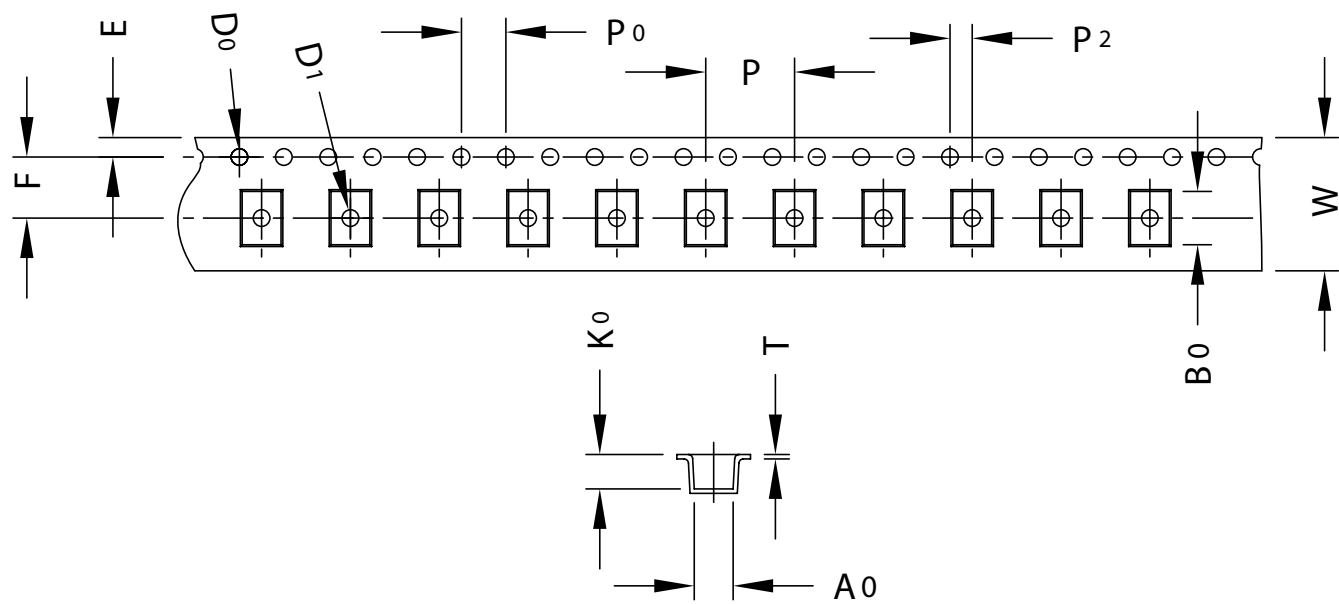


AE1210



Tape & Reel

AE5002 / AE1210



Dim Chart												
Item	W	A <sub>0</sub>	B <sub>0</sub>	K <sub>0</sub>	P	F	E	D <sub>0</sub>	D <sub>1</sub>	P <sub>0</sub>	P <sub>2</sub>	T
AE5002	12.00 ±0.30	3.5 ±0.10	4.8 ±0.10	3.1 ±0.10	8.00 ±0.10	5.50 ±0.10	1.75 ±0.10	1.50 <sup>+0.10</sup> <sub>-0.00</sub>	1.50 <sup>+0.10</sup> <sub>-0.00</sub>	4.00 ±0.10	2.00 ±0.10	0.40 ±0.05
AE1210	12.00 ±0.30	2.7 ±0.10	3.5 ±0.10	2.6 ±0.10	4.00 ±0.10	5.50 ±0.10	1.75 ±0.10	1.50 <sup>+0.10</sup> <sub>-0.00</sub>	1.50 <sup>+0.10</sup> <sub>-0.00</sub>	4.00 ±0.10	2.00 ±0.10	0.40 ±0.05

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