

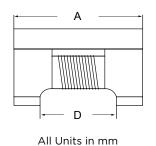


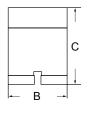


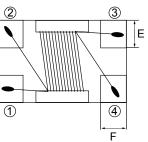
- Meets AEC-Q200 Requirements
- Suppression of common mode noise without attenuating the signal
- Magnetically shielded versions for lower Rdc and higher current
- Supports CAN-Bus, A2B and other IVN high speed differential signal lines (LVDS)

Electrical Specifications @ 25°C											
	Common Mode Impedance (10MHZ)		Inductance	Standard	RDC	Leakage Inductance	IDC (A MAY)	Isolation Resistance	Rated Voltage		
Part Number	Min	Тур	(uH)	Tolerance	(Ω Max)	(nH) MAX	(A MAX)	$(M\Omega)$ Min	(V) Max		
PE-1812ACCXXXSTS	Operating Temperature Range -40°C to +125°C										
PE-1812ACC110STS	300 600		11	+50/-30%	0.5	45	0.36	10	50		
PE-1812ACC22OSTS	600	1200	22	+50/-30%	0.6	50	0.31	10	50		
PE-1812ACC510STS	1500	3500	51	+50/-30%	1	150	0.23	10	50		
PE-1812ACC101STS	3000	7500	100	+50/-30%	2	200	0.2	10	50		

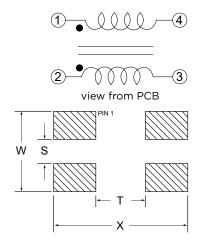
Mechanical Schematic







Bifilar winding (representation only)



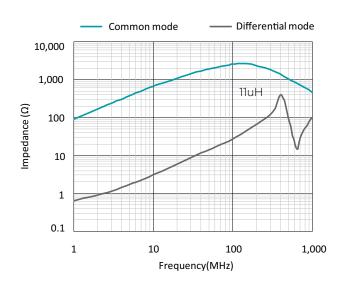
	Comp	onent Dimensi	SOLDER PAD (mm)							
Series	Α	В	C	D	E	F	Χ	T	W	S
1812 ACC	4.5 +/-0.20	3.2 +/-0.20	3.0 MAX	3.1+/-0.20	0.65+/-0.15	0.70+/-0.15	5.90	3.20	3.40	1.60

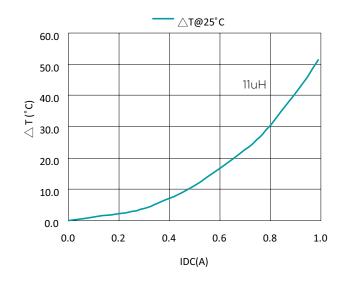


Impedance vs Frequency

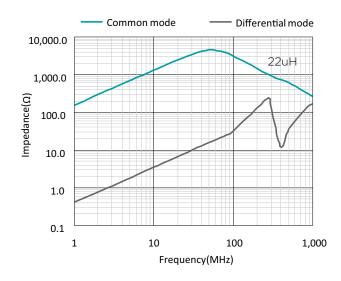
Temp vs DC Current

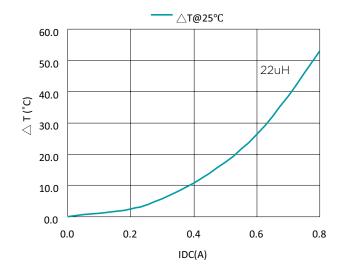
PE-1812ACC110STS





PE-1812ACC22OSTS



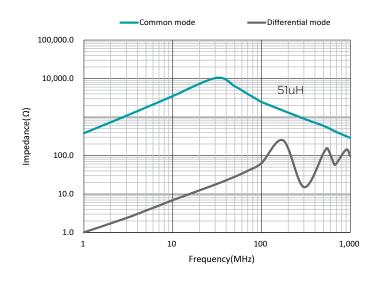


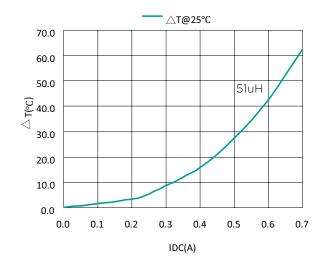


Impedance vs Frequency

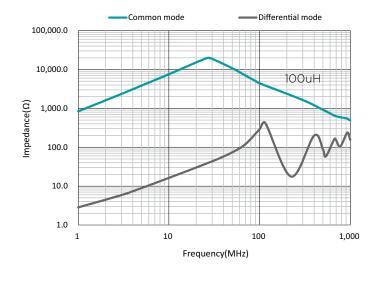
Temp vs DC Current

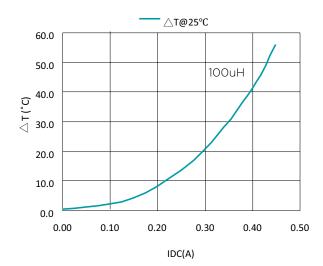
PE-1812ACC510STS





PE-1812ACC101STS



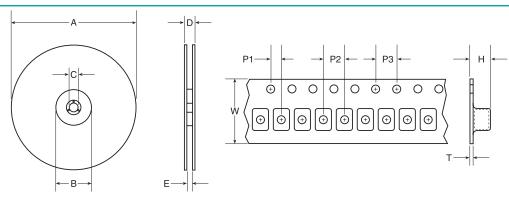




Reliability Test

ltem	Reference documents	Test Condition	Test Specification		
1. High Temperature Exposure	MIL-STD-202 Method 108	1. Temperature: 125°C 2. Time: 1000 hours	1. No mechanical and electrical damage 2. Inductance shall not change more than ±30%		
2. Temperature Cycling	JESD22 Method JA-104	1. Temperature: -40°C-125°C 2. Number of cycles: 1000 cycle 3.Dwell time: 30 minutes	1. No mechanical and electrical damage 2. Inductance shall not change more than ±30%		
3. Biased Humidity Test	MIL-STD-202 Method 103	1. Temperature: 85±5°C 2. Time: 1000 hours 3. Humidity: 85±5% RH	1. No mechanical and electrical damage 2. Inductance shall not change more than ±30%		
4. Operational Life	MIL-PRF-27	1. Temperature: 125°C 2. Time: 1000 hours 3. Apply rated current	1. No mechanical and electrical damage 2. Inductance shall not change more than ±30%		
5. External Visual	MIL-STD-883 Method 2009	Inspect product construction, marking and workmanship	Per product specification standard		
6. Physical Dimensions	JESD22 Method JB-100	Verify physical dimensions to the applicable product detail specification	Per product specification standard		
7. Resistance to solvents	MIL-STD-202 Method 215	Immerse into solvent for 3±0.5 minutes & brush 10 times for their cycles.	No body change in appearance No marking blurred. Inductance shall not change more than ±30%		
8. Vibration Test	MIL-STD-202 Method 204	Frequency and Amplified: 10-2000-10 Hz, 1.5mm Direction: X, Y, Z Test duration: 2 hours for each direction, 6 hours in total	1. No mechanical and electrical damage 2. Inductance shall not change more than ±30%		
9. Resistance to Soldering Heat Test	MIL-STD-202 Method 210	1. Temperature: 250±5°C 2. Time: (temp.≥217°C) 92~109 Seconds 3. IR reflow times: 3 times	1. No mechanical and electrical damage 2. Inductance shall not change more than ±30%		
10. Rated Current	MIL-STD-202 Method 330	Apply rated current for 5 seconds.	1. No mechanical and electrical damage 2. Inductance shall not change more than ±30%		
11. Temperature Rise	MIL-PRF-27	Apply rated current for 10 minutes.	No mechanical and electrical damage Inductance shall not change more than ±30%		
12. Over load	MIL-PRF-27	Apply twice as rated current for 5 minutes.	1. No mechanical and electrical damage 2. Inductance shall not change more than ±30%		
13. Solderability Test	J-STD-002	 Bakeing in pre-testing: 150±5°C / 16Hours±30min. Peak temperature: 245°C Time: (temp.≥217°C) 112 Second IR reflow times: 1 time 	The terminal shall be at least 95% covered with fresh solder.		
14. Electrical Characterization	User Spec.	1. Operating temperature: -40°C~125°C 2. Room Temperature: 25°C	1. No mechanical and electrical damage 2. Inductance shall not change more than ±30%		
15. Withstanding Voltage Test	MIL-STD-202 Method 201	1. DV: 500V 2. Time: 1 minute	During the test no breakdown. The characteristic is normal after test.		
16. Drop	JESD22-B111	Package & Drop down from 1m. In 1 angle 1 ridge & 2 surfaces orientation	1. No case deformation or change in appearance. 2. Inductance shall not change more than ±30%		
17. Terminal Strength Test	JIS-C-6429	1. Apply push force to samples mounted on PCB. 2. Force of 1.8 kg for 60±1 seconds.	After test, inductors shall be on mechanical damge.		

Tape and Reel Specifications



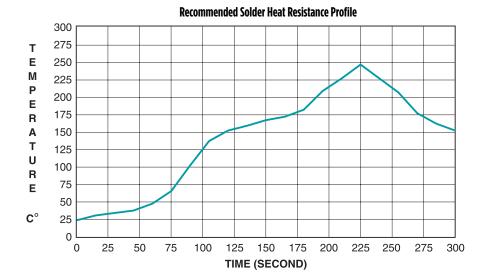
Reel Dimensions (mm)							Tape Dimensions (mm)					
Series	Parts per Reel	A	В	C	D	E	W	P1	P2	P3	Н	Ţ
1812 ACC	500	178	60	13	17	14	12	2	8	4	4	0.35

I. Description:

- a. Ferrite drum core construction
- b. Magnetically shielded
- c. Enameled copper wire: H class
- d. Product weight: 0.15g (ref.)
- e. Moisture sensitivity Level 1
- f. Products comply with RoHS' requirements
- g. Halogen Free available

II. General specification:

- a. Storage temp: -40°C to +125°C
- b. Operating temp: -40°C to +125°C (Temp. rise included)
- c. Resistance to solder heat: 250°C 10 secs.



For More Information:

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>>Pulse(普思)