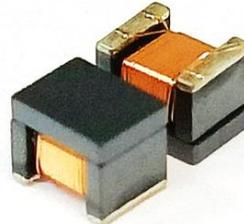
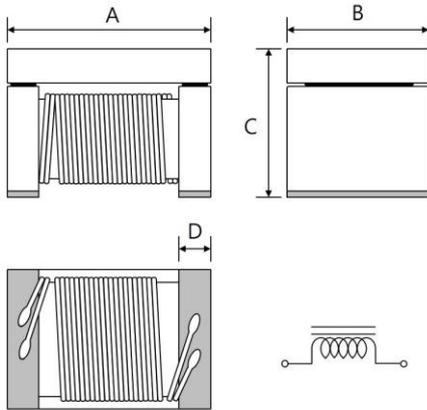


Specification



Item P/N	POC3225A-SERIES	Test Instrument	E4991、4338、6379
Product	SMD Inductor for Power Over Coax	Test Frequency	100 KHz / 0.5V

■ Style and Dimensions (mm)



POC3225	Dimensions
A	3.2 ± 0.2
B	2.5 ± 0.2
C	2.8 Max.
D	0.5 ± 0.1

■ Explanation Of Part Numbers

① ② ③ ④

POC 3225A - 100 M

- ① Product name
- ② Shapes and dimensions
- ③ Inductance 【at 100KHz】 100:10μH
- ④ Tolerance : S=±25% ; M=±20%

■ Electrical Characteristics

P/N	L (μH) at 100KHz	SRF (MHz) Typ.	DCR (Ω) Max.	Saturation Current DC					Heat Rating Current DC		
				I sat. (mA)					I rms. (mA)		
				25°C	85°C	105°C	125°C	150°C	at 25°C	at 85°C	at 125°C
POC3225A-2R2M	2.2	250	0.13	2200	1900	1700	1500	1300	1900	1730	1000
POC3225A-2R7M	2.7	200	0.16	1900	1650	1450	1300	1150	1800	1480	700
POC3225A-3R3M	3.3	180	0.17	1600	1400	1250	1100	900	1400	1250	950
POC3225A-4R7M	4.7	120	0.19	1500	1300	1100	950	810	1350	1150	850
POC3225A-6R8M	6.8	120	0.24	1300	1150	1000	900	750	1250	1050	780
POC3225A-100M	10	50	0.30	990	880	750	700	620	900	850	600
POC3225A-150M	15	50	0.55	910	740	660	580	500	900	840	560
POC3225A-180M	18	60	0.75	800	650	580	510	450	820	700	550
POC3225A-220M	22	75	0.88	720	600	550	490	700	650	600	540
POC3225A-470M	47	80	0.90	300	330	300	280	260	350	300	250

Specification



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※Isat for Inductance drop30% from its value without current typical.

Irms for a 40°C rise above 25°C ambient typical.

Operating Temperature Range -40°C to +125°C (Including self-temperature rise)

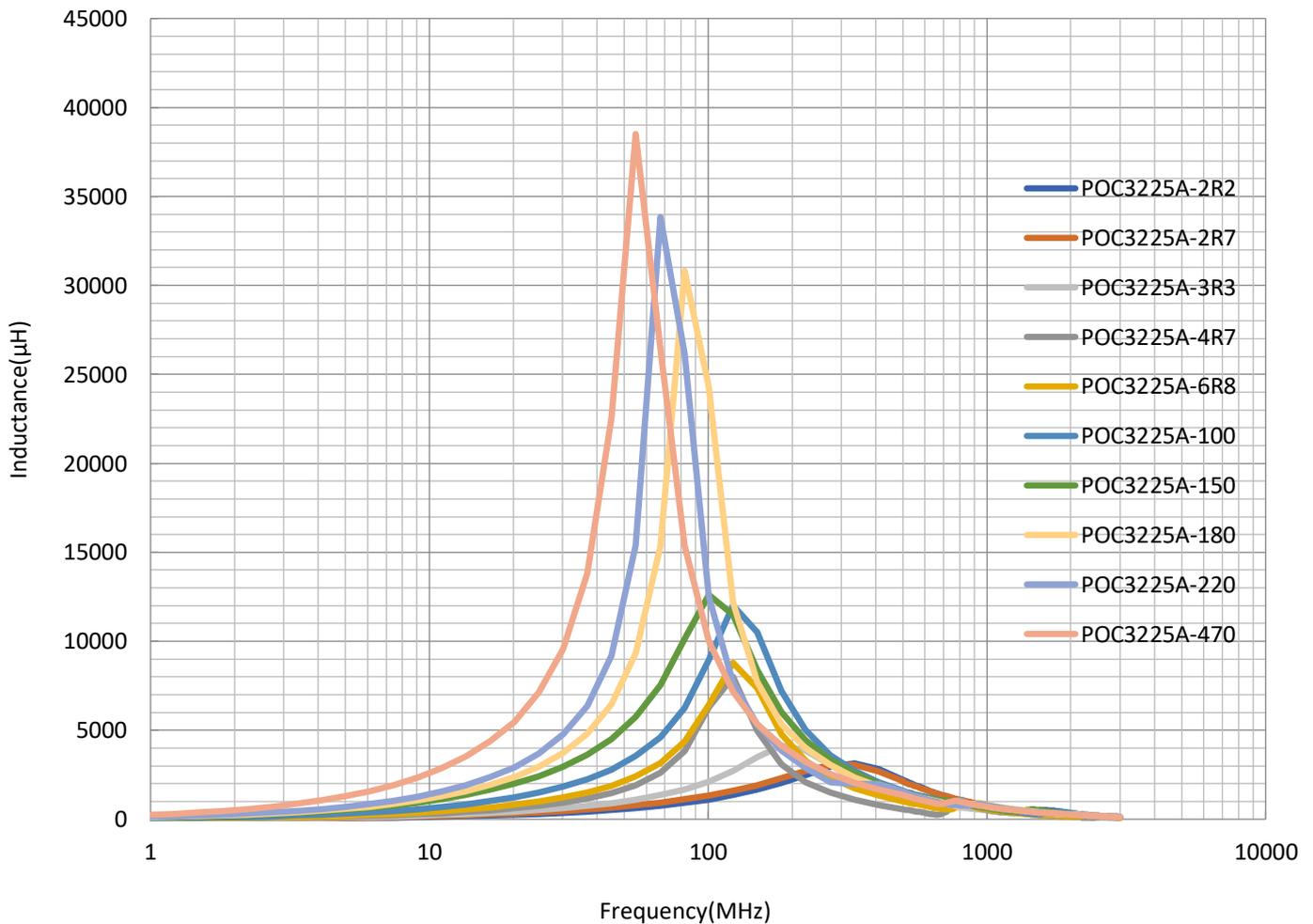
Storage temp. and humidity: Less than 40°C and 60% RH.

If Use Wave soldering is there will be some risk.

Re-flow soldering temperatures below 240 degrees, there will be unwitting risk.

■ Performance Curves

POC3225-SERIES Z.vs.Frequency

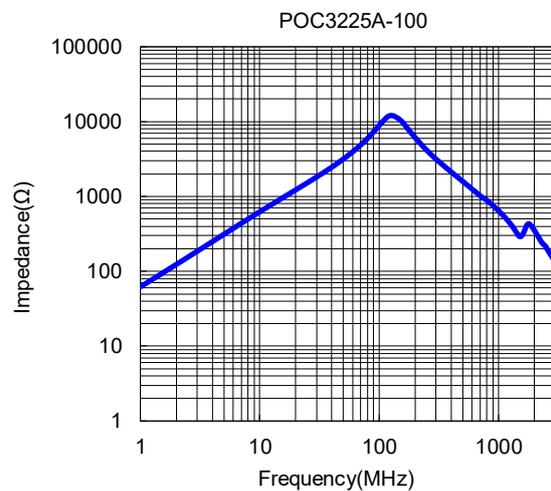
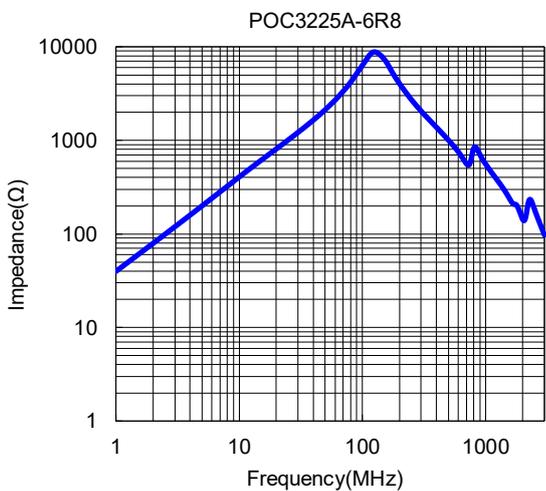
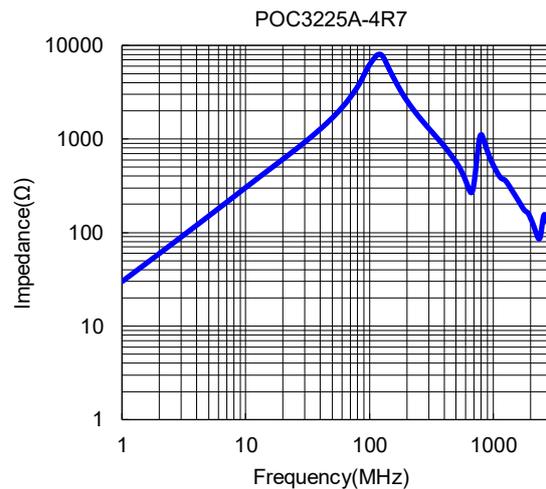
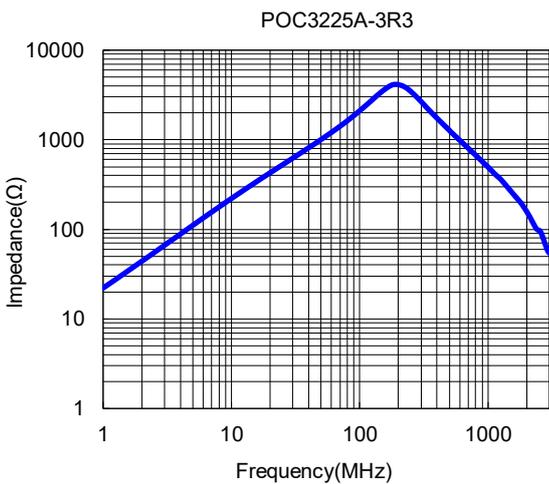
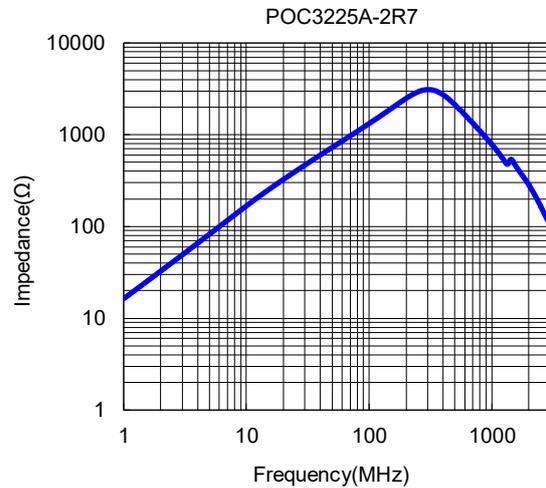
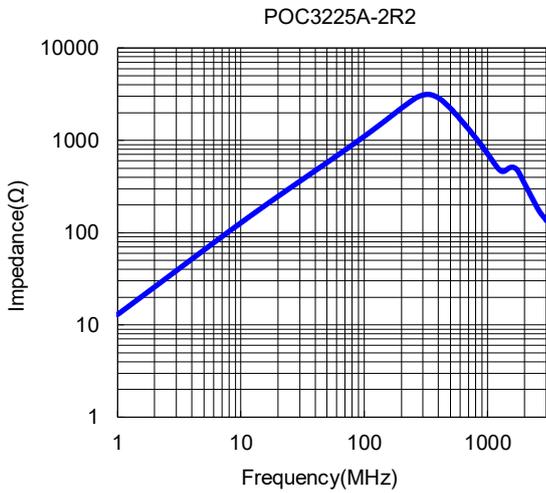


Specification



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Product	SMD Inductor for Power Over Coax	Test Frequency	100 KHz / 0.5V

■ Performance Curves

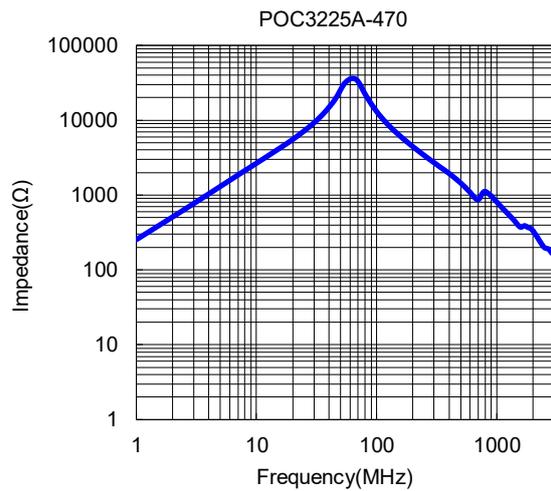
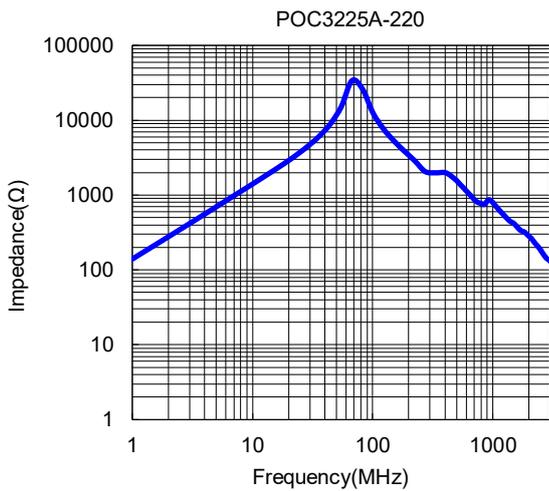
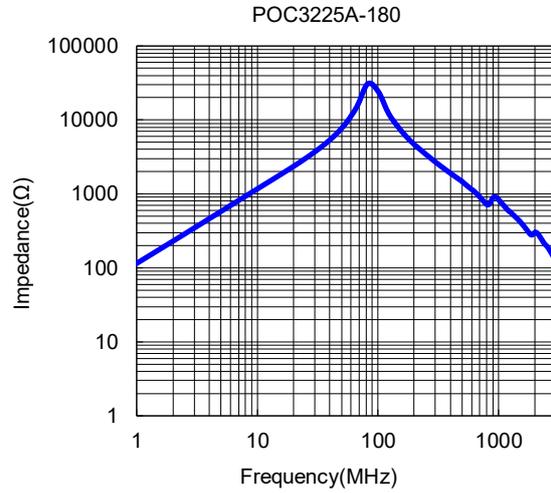
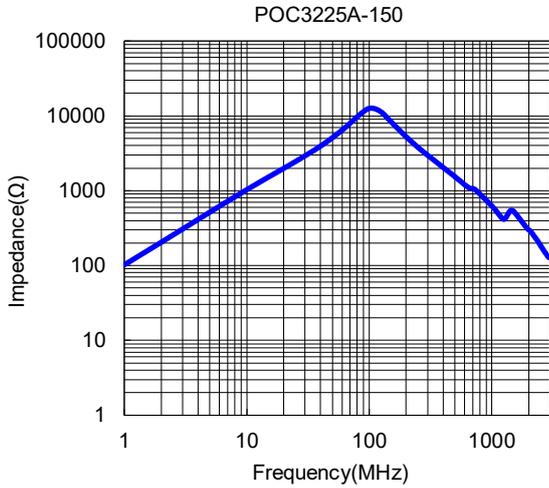


Specification



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■ Performance Curves

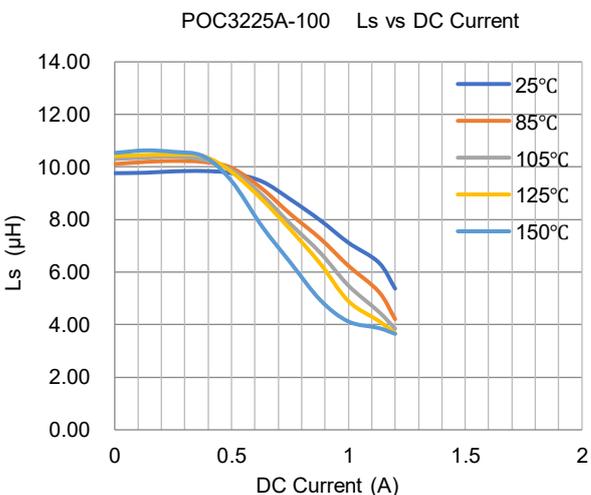
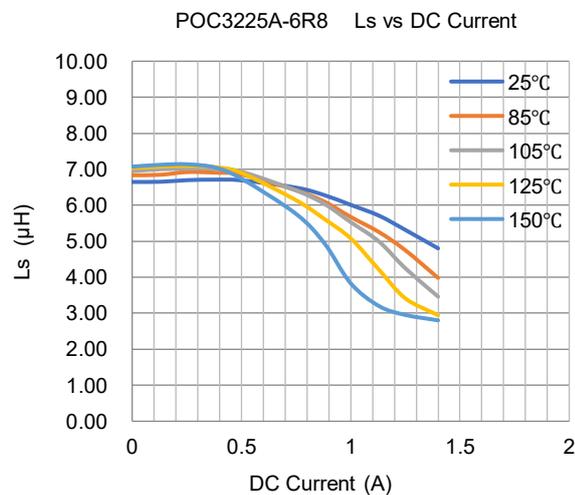
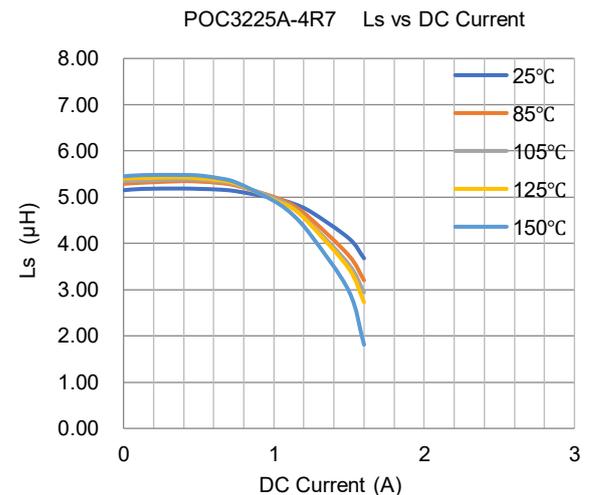
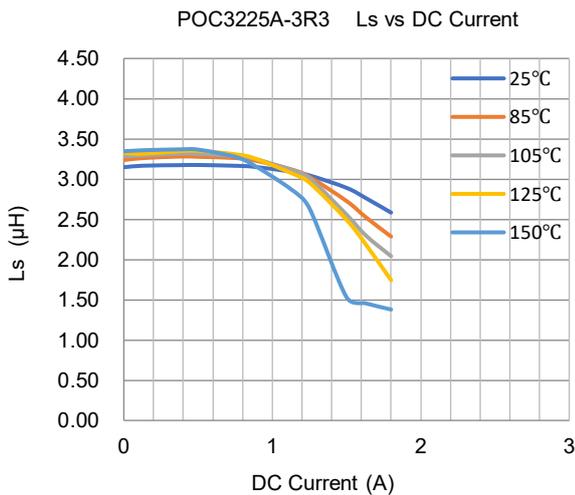
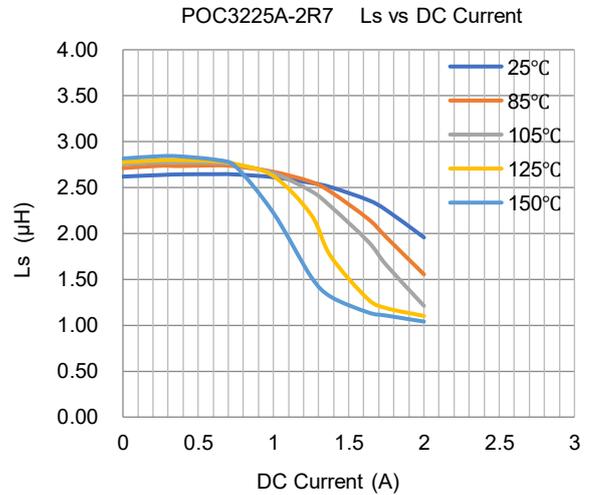
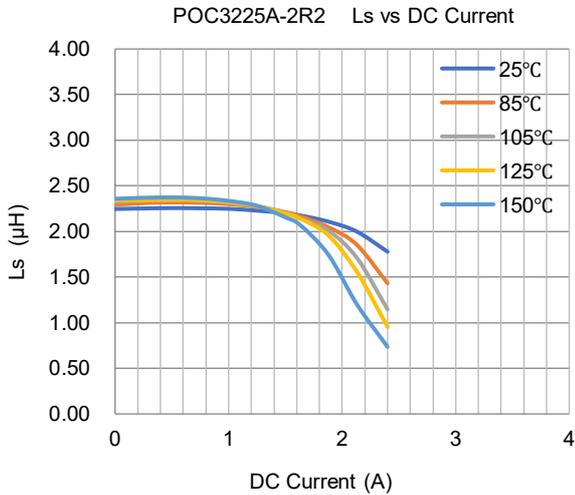


Characteristics



Item P/N	POC3225A-SERIES	Test Instrument	E4991、4338、6379
Product	SMD Inductor for Power Over Coax	Test Frequency	100 KHz / 0.5V

■ Performance Curves

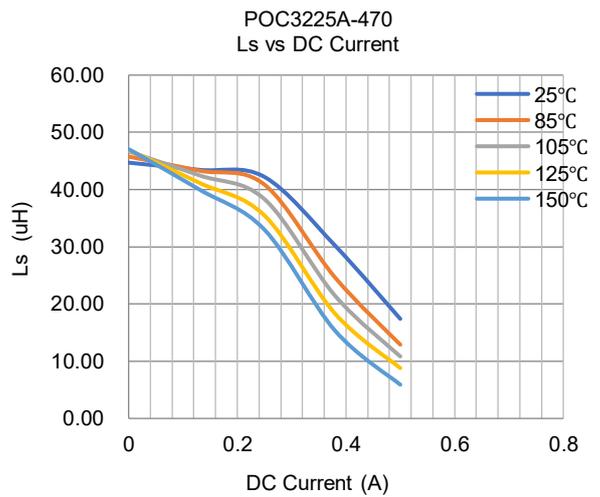
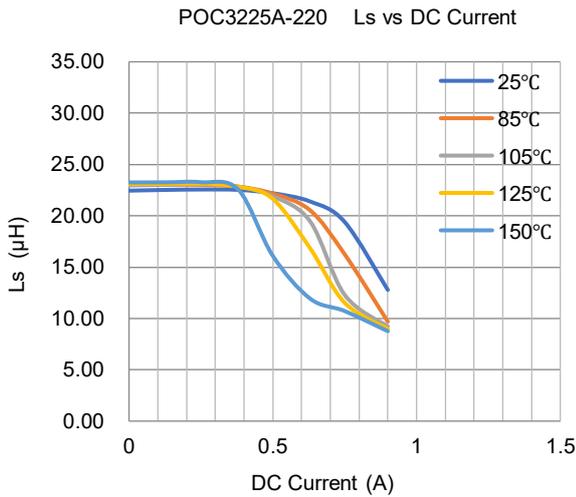
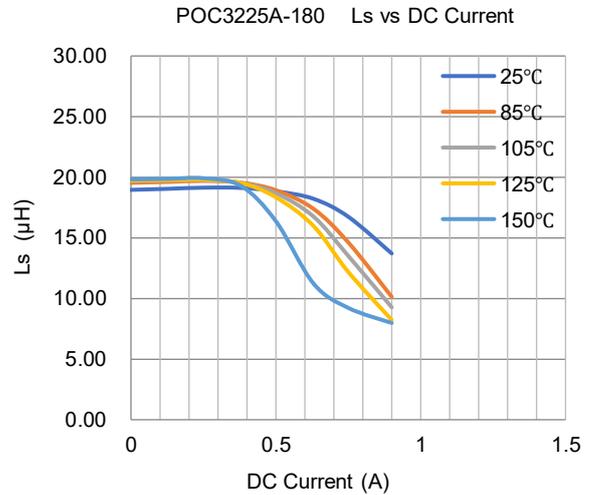
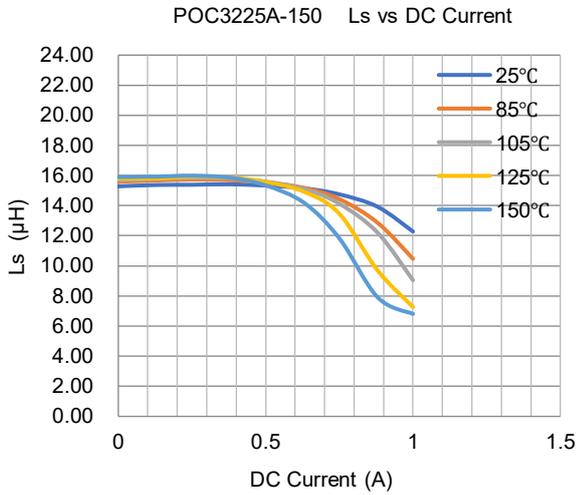


Characteristics



Item P/N	POC3225A-SERIES	Test Instrument	E4991、4338、6379
Product	SMD Inductor for Power Over Coax	Test Frequency	100 KHz / 0.5V

■ Performance Curves



Characteristics



Item P/N	POC3225A-SERIES	Test Instrument	E4991 、 4338 、 6379
Product	SMD Inductor for Power Over Coax	Test Frequency	100 KHz / 0.5V

■ Reliability and Test Condition

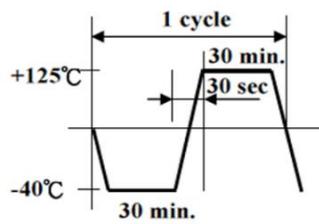
Test item	Specification	Test condition
Solder-ability	The Metalized Area Must Have 90% Minimum Solder Coverage.	Dip Pads in Flux and Dip in Solder Pot (96.5 Sn / 3.5 Ag Solder) at 255±5℃
Resistance to soldering heat	There Must be no Case Deformation or Change in Dimensions. Inductance Must Not Change More Than the Stated Tolerance.	Inductors Shall be Reflowed onto a PC Board Using 96.5 Sn / 3.5 Ag Solder Paste. Solder Process Shall be at a Maximum Temperature of 260℃ For 96.5 Sn / 3.5 Ag Solder Paste : >217℃ for 90 Seconds.
Vibration	There Must be no Case Deformation or Change in Dimensions. Inductance Must Not Change More Than the Stated Tolerance.	Solder Specimen Inductor on the Test Printed Circuit Board. Apply Vibrations in Each of the x , y and z Directions for 2 House for a Total of 6 Hours. Frequency : 10~50 Hz Amplitude : 1.5mm
High Temperature Resistance	There Must be no Case Deformation or Change in Dimensions. Inductance Must Not Change More Than the Stated Tolerance.	Inductors Shall be Subjected to Temperature 125±2℃ for 50±12 Hours. Measure the Test Items after Leaving the Inductors at Room Temperature and Humidity for 2 Hours.
Static Humidity	Inductors Must not Have a Shorted or Open Winding.	Inductors Shall be Subjected to Temperature 85±2℃ and 90 to 95%RH. For Ten 24-Hours. Measure the Test Items after Leaving the Inductors at Room Temperature and Humidity for 2 Hours.
Terminal Strength	Force of 1.8kg for 60s	
Low Temperature Storage	There Must be no Case Deformation or Change in Dimensions. Inductance Must Not Change More Than the Stated Tolerance.	Inductors Shall be Subjected to Temperature -40±2℃ for 48±12 Hours. Measure the Test Items after Leaving the Inductors at Room Temperature and Humidity for 2 Hours.
Resistance to Solvent	There Must be no Case Deformation or Change in Dimensions, or Obliteration of Marking.	Inductors Must Withstand 6 Minutes of Alcohol or Water.

Characteristics

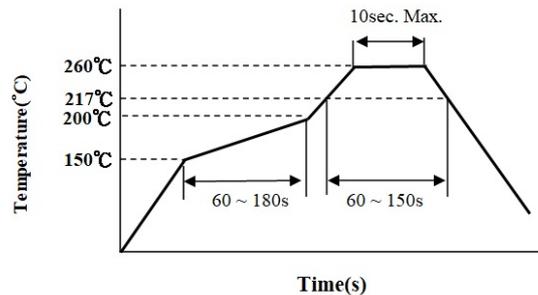


Item P/N	POC3225A-SERIES	Test Instrument	E4991、4338、6379
Product	SMD Inductor for Power Over Coax	Test Frequency	100 KHz / 0.5V

■ Reliability and Test Condition

Test item	Specification	Test condition
Thermal Shock	There Must be no Case Deformation or Change in Dimensions. Inductance Must Not Change More Than the Stated Tolerance.	Inductors Shall be Subjected to 10 Cycles to The Following Temperature Cycle.  Measure The Test Items After Leaving the Inductors at Room Temperature and Humidity for 2 Hours.

■ Reliability and Test Condition



●Iron Soldering

Use a Solder Iron of Less Than 30W When Soldering, Do Not Allow the Soldering Iron Directly Touch the Body Outside of Terminal Electrode. 4 Seconds Max. at 260°C

●Attention in Case of Using

In Case of Using Product, Please Avoid Following Matters :

- Splashing Water or Salt Water
- Dew Condenses
- Toxic Gas (Hydrogen Sulfide, Sulfurous Acid, Chlorine, Ammon)
- Vibrations or Shocks Which Exceed the Specified Condition

Please be Careful of the Stress to This Product by Board Flexure or Something After the Mounting.

●Others

1. Operating Temperature Range : Series -40 to +125°C
2. Storage Condition : Temperature 20~25°C, Relative Humidity 40~60%
3. Recommended Wire Wound Inductors Should be Used Within 6 Months from the of Delivery.

Characteristics



Item P/N	POC3225A-SERIES	Test Instrument	E4991 、 4338 、 6379
Product	SMD Inductor for Power Over Coax	Test Frequency	100 KHz / 0.5V

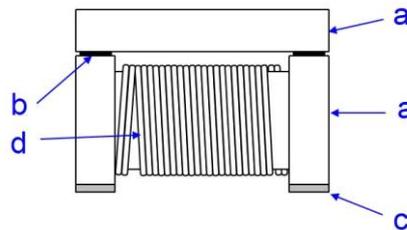
■ Application Notice

●Transportation

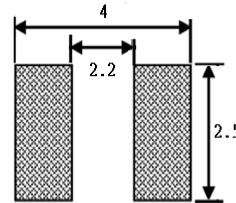
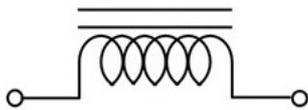
1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
3. Bulk handling should ensure that abrasion and mechanical shock are minimized.

■ Product Composition Diagram

No.	Description	Specification
a.	Core	Ferrite Core
b.	Coating	Epoxy
c.	Termination	Tin Pb Free
d.	Wire	Enameled Copper Wire



■ Recommended Footprint

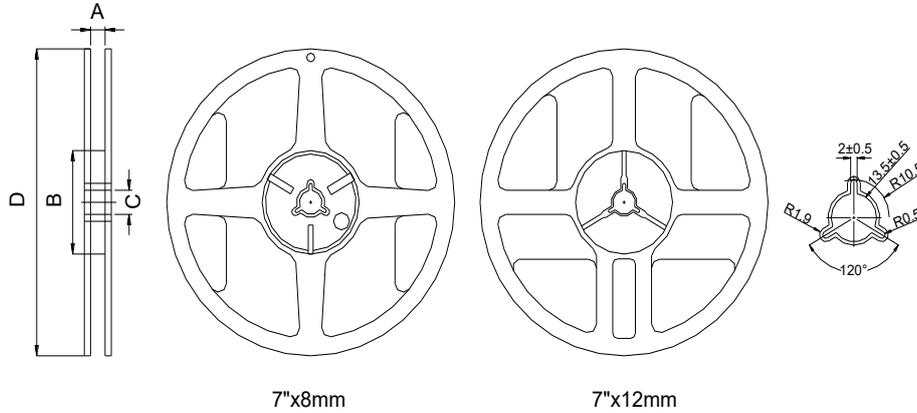


Packing For SMD

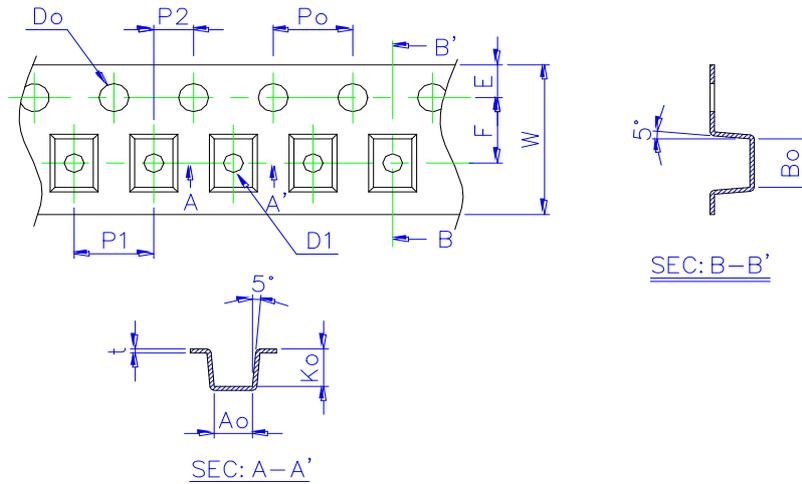


Item P/N	POC3225A-SERIES	Test Instrument	E4991、4338、6379
Product	SMD Inductor for Power Over Coax	Test Frequency	100 KHz / 0.5V

■ Reel Dimension & Tape Dimension



Type	A(mm)	B(mm)	C(mm)	D(mm)
7"x8mm	9.5±0.5	60±0.5	13.5±0.5	178±1



Size	T(mm)	Ao(mm)	Bo(mm)	Ko(mm)	W(mm)	E(mm)	F(mm)	Po(mm)	P1(mm)	P2(mm)	Do(mm)
3225	0.23±0.05	2.80±0.10	3.60±0.10	2.80±0.10	8.00±0.20	1.75±0.10	3.50±0.05	4.00±0.05	4.00±0.10	2.00±0.05	1.50+0.1,-0

■ Packaging Quantity

Chip Size	3225
7"/ Reel	1000