



Wire Wound Chip Ferrite Inductor – ACW Series Operating Temp.: -40°C~+125°C

● **FEATURES 特性**

1. Broadband impedance characteristics
具有宽频段阻抗特性
2. Good DC superimposition characteristics
良好的直流叠加特性
3. Efficient transmission signal
高效的传输信号
4. The range of filter video noise from MHz to GHz
具有从MHz到GHz视频噪声滤波范围
5. High saturation current, low DCR
高饱和，低电阻
5. AEC-Q200 verified
满足AEC-Q200认证

● **APPLICATIONS 用途**

1. PoC line for automotive camera system
应用在汽车摄像系统PoC线上

● **PART NUMBERING SYSTEM 品名系统**

ACM 3225 2R2 M

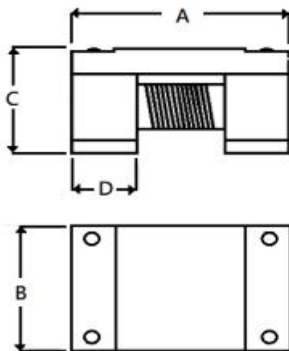
A B C D

A: Type 型号 B: External Dimensions 外形尺寸 A*B

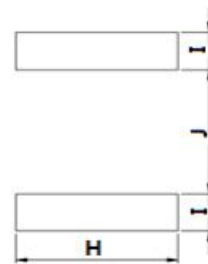
C: 感量 2R2 = 2.2uH

D: M (公差±20%)

● **SHAPES AND DIMENSIONS 外形尺寸 (Unit:mm)**

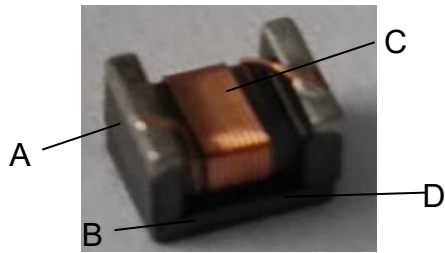


Recommended Land Pattern



TYPE(型号)	A	B	C	D	H	I	J
ACM3225	3.2±0.2	2.5±0.2	2.3±0.2	0.2 Ref	2.7 Ref	0.7 Ref	2.0 Ref

● **STRUCTURE AND MATERIAL**



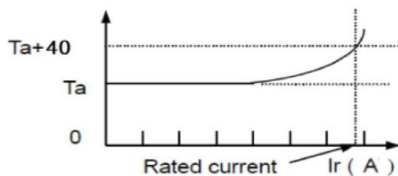
Part	Components	Material
A	Core	Ferrite
B	I Core	Ferrite
C	Wire	Polyurethane enameled copper wire
D	Epoxy	Epoxy resin

● **ELECTRICAL CHARACTERISTICS**

1. Operating temperature range : -55°C~125°C(Including self - temperature rise)
2. Storage temperature range (packaging conditions): -10°C~+40°C and RH 70% (Max.)

● **TEST AND MEASUREMENT PROCEDURES**

1. Rated current: Isat(Max) or Irms(Max), whichever is smaller.
2. Saturation Current: Max. Value, DC current at which the inductance drops less than 30% from its value without current; Typ. Value, DC current at which the inductance drops approximate 30% from its value without current.
3. Irms: DC current that causes the temperature rise (ΔT) from 20°C ambient; For Max. Value, temperature rise (ΔT) is 20°C. For Typ. Value, temperature rise (ΔT) is approximate 40°C.



● **RECOMMENDED SOLDERING TECHNOLOGIES**

Re-flowing Profile

Preheat condition: 150~200 /60~120sec.

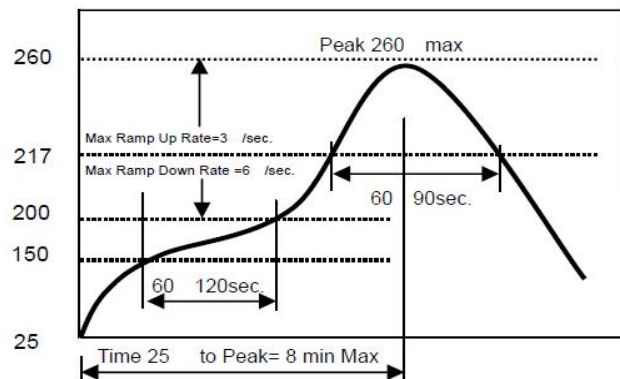
Allowed time above 217C: 60~90sec.

Max temp: 260

Max time at max temp: 10sec

Solder paste: Sn/3.0Ag/0.5Cu

Allowed Reflow time: 2 times max



● SPECIFICATION TABLE:

ACW3225 Series

Part No.	Inductance(uH)	Test Condition	DCR (Ω) Max	Saturation Current.Max (mA)	Irms Max (mA)
ACW3225-2R2M	2.2±20%	100KHz,1V	0.19	1000	1000
ACW3225-2R7M	2.7±20%	100KHz,1V	0.22	975	975
ACW3225-3R3M	3.3±20%	100KHz,1V	0.24	950	950
ACW3225-4R7M	4.7±20%	100KHz,1V	0.28	850	850
ACW3225-100M	10±20%	100KHz,1V	0.40	500	500
ACW3225-220M	22±20%	100KHz,1V	0.62	400	400
ACW3225-470M	47±20%	100KHz,1V	0.90	300	300



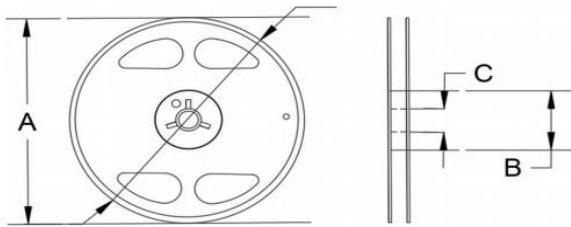
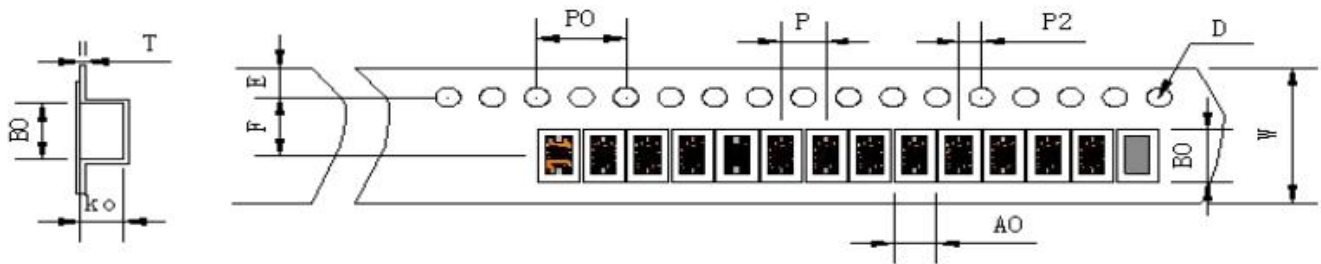
● **PACKAGING SPECIFICATION :**

1. Packaging - Cover Tape

The force for tearing off cover tape is 20 to 100 grams in the arrow direction.



2. Packaging - Tape & Reel



Item	Dimension
A	178±1
B	60±1
C	13±0.5

Type	Tape Dimension (mm)						Reel Dimension (mm)			Quantity (Pcs/Reel)
	W	A0	B0	K0	D	P	A	B	C	
ACW3225	12	2.9	3.5	2.7	1.5	4	178	60	13	1000 pcs

