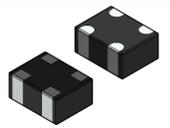


# High-Speed Multilayer Common Mode Chokes



**ACMS-0605U Series**

Request Samples



Check Inventory



**0.65 x 0.50 x 0.30mm**  
**RoHS/RoHS II Compliant**  
**MSL Level = 1**

## Features

- Miniature size: 0.65 x 0.50 x 0.30 mm
- Monolithic, compact design
- Low insertion loss over a wide frequency range
- High common mode impedance

## Applications

- High-frequency differential signal lines & data transmission protocols like USB, MIPI, RS-422/485 and others
- EMI and noise reduction in telecom infrastructure, multimedia devices, consumer electronics, and IoT systems

## Electrical Specifications

Part Number*	Common Mode Impedance ( $\Omega$ )@100MHz	Impedance Tolerance	DCR ( $\Omega$ )	Rated Current (mA)	Rated Voltage (Vdc)	Withstand Voltage (VDC)	Insulation Resistance ( $M\Omega$ )
	Typ.	%	Max.	Max.	Max.	Max.	Min.
ACMS-0605U-120	12	5	2.5	50	5	12.5	100
ACMS-0605U-250	25	10	3.5	50	5	12.5	100

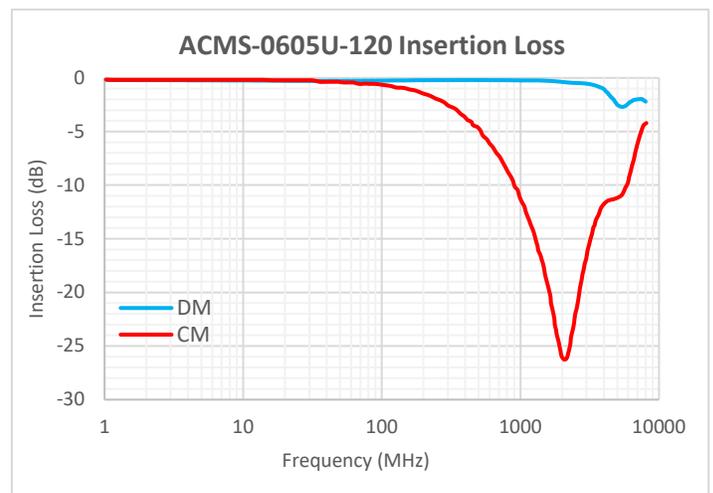
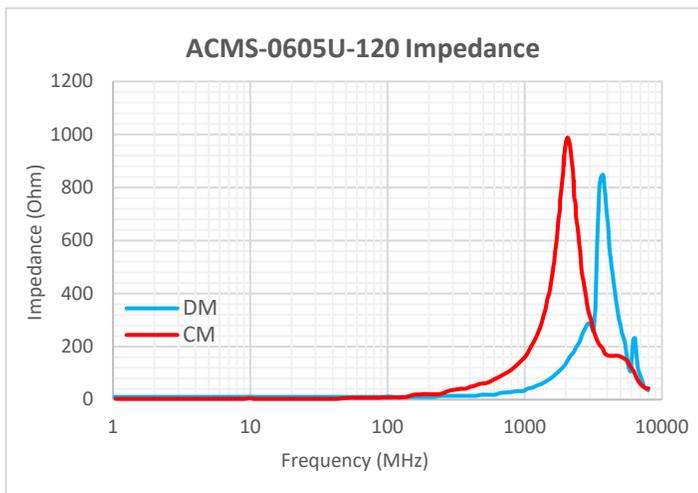
\*For orderable part numbers, please select the tolerance and packaging option as described in the [Part Identification](#) section.

**Rated Current is based on an Irms temperature rise of 20°C.**

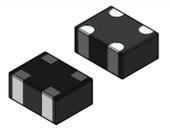
**Operating temperature: -40°C to +85°C.**

**Storage temperature (in original packaging): -10°C to 40°C, <70% RH (Max.)**

**ACMS-0605U Series is RoHS Compliant and Pb free.**



# High-Speed Multilayer Common Mode Chokes



**ACMS-0605U Series**

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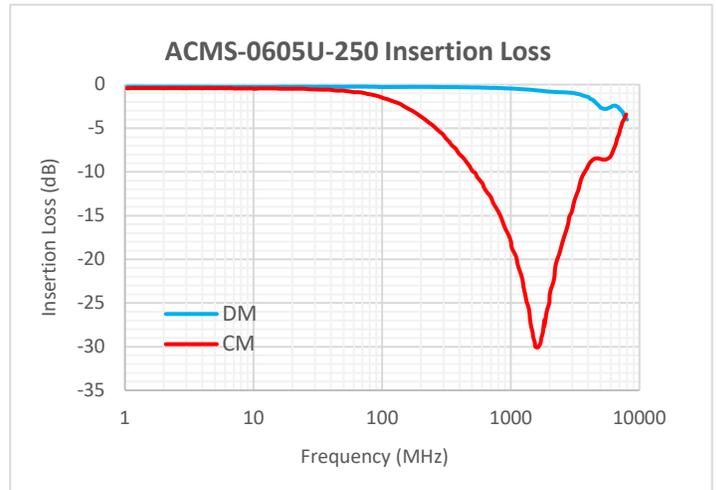
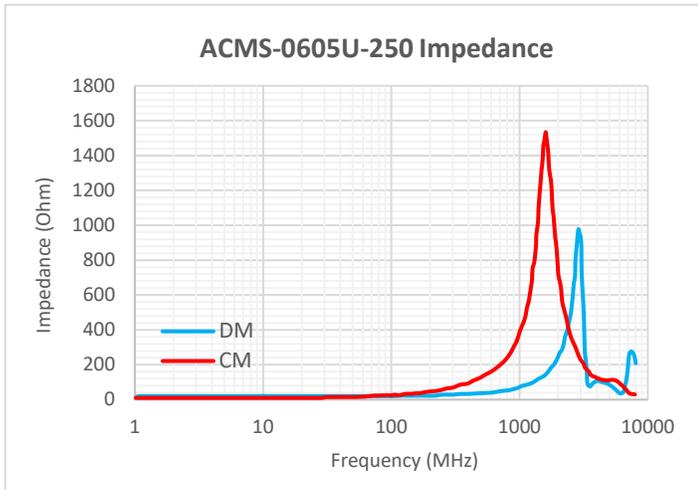


Check Inventory

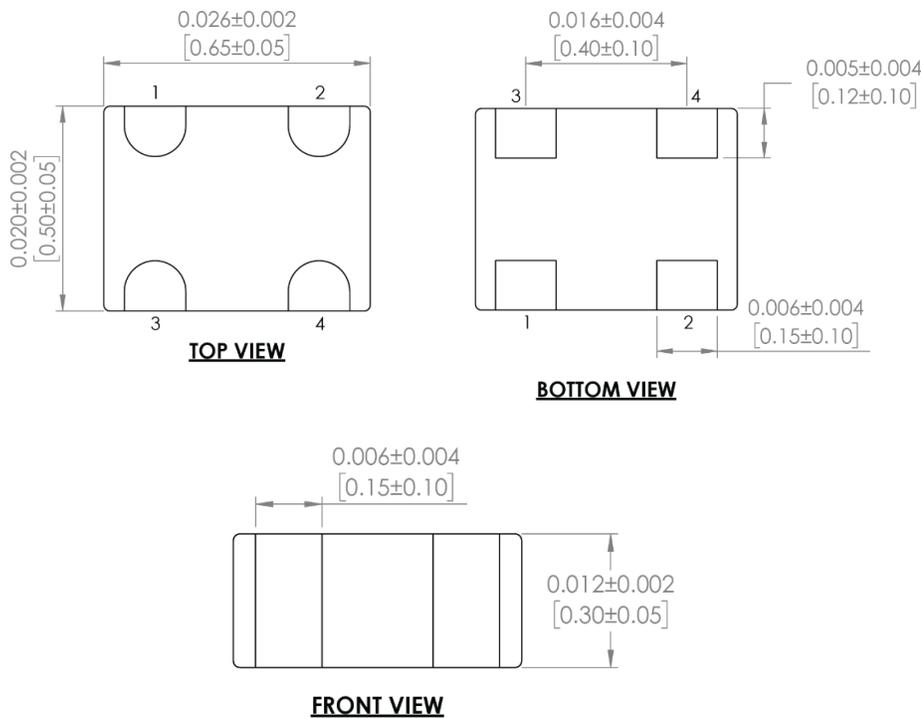


**0.65 x 0.50 x 0.30mm**  
**RoHS/RoHS II Compliant**  
**MSL Level = 1**

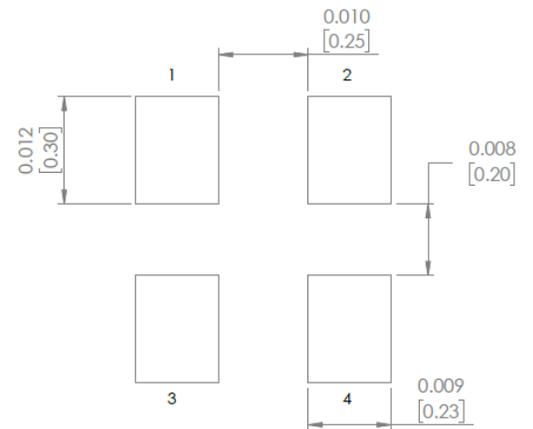
## Electrical Specifications (Cont'd)



## Mechanical Specifications



### RECOMMENDED LAND PATTERN



Dimensions: Inches[mm]

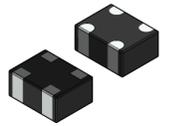


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REVISION: IR 12-06-24

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# High-Speed Multilayer Common Mode Chokes



ACMS-0605U Series

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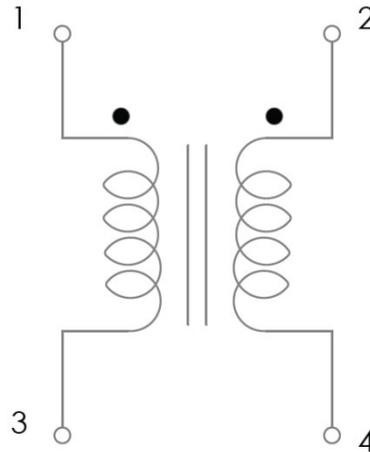


Check Inventory

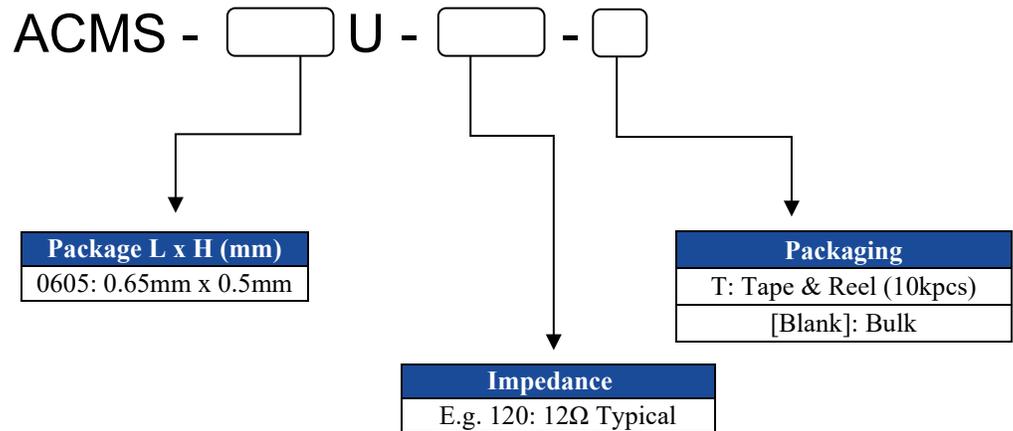


0.65 x 0.50 x 0.30mm  
RoHS/RoHS II Compliant  
MSL Level = 1

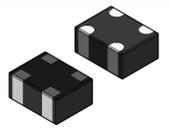
## Schematic



## Part Identification



# High-Speed Multilayer Common Mode Chokes



ACMS-0605U Series

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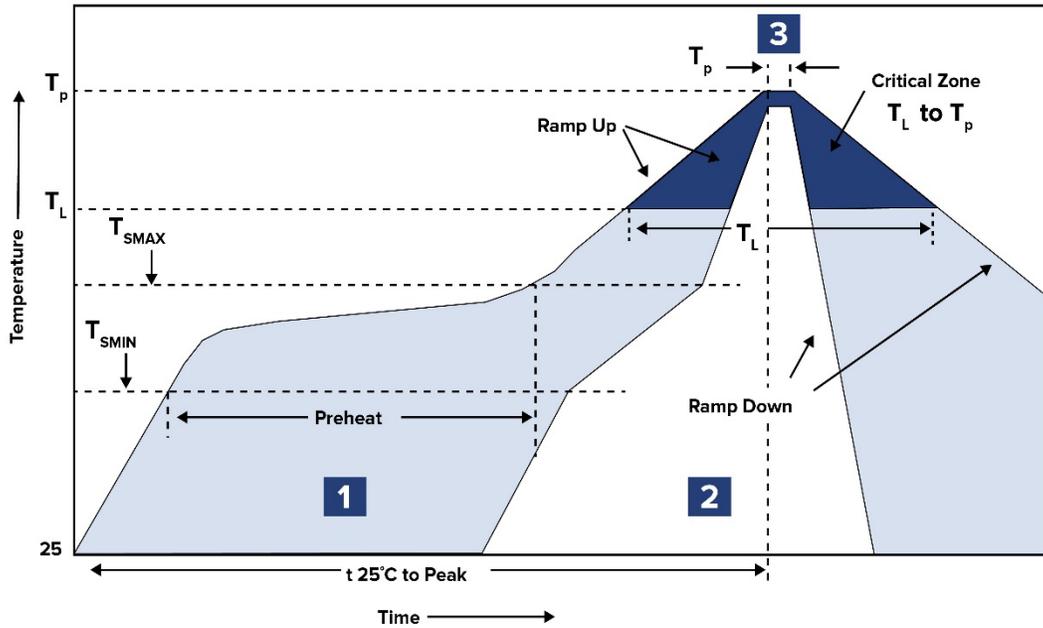


Check Inventory



0.65 x 0.50 x 0.30mm  
 RoHS/RoHS II Compliant  
 MSL Level = 1

## Reflow Profile



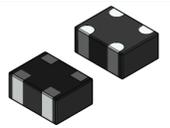
Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ 150°C ~ 200°C	60 ~ 120 sec.
2	Reflow	$T_L$ 217°C	60 ~ 90 sec.
3	Peak heat	$T_p$ 260°C Max.	5 sec. Max

Ref. Solder paste: Pb-free Sn/3.0Ag/0.5Cu

Ramp up rate: 3°C/s Max.

Ramp down rate: 6°C/s Max.

# High-Speed Multilayer Common Mode Chokes



**ACMS-0605U Series**

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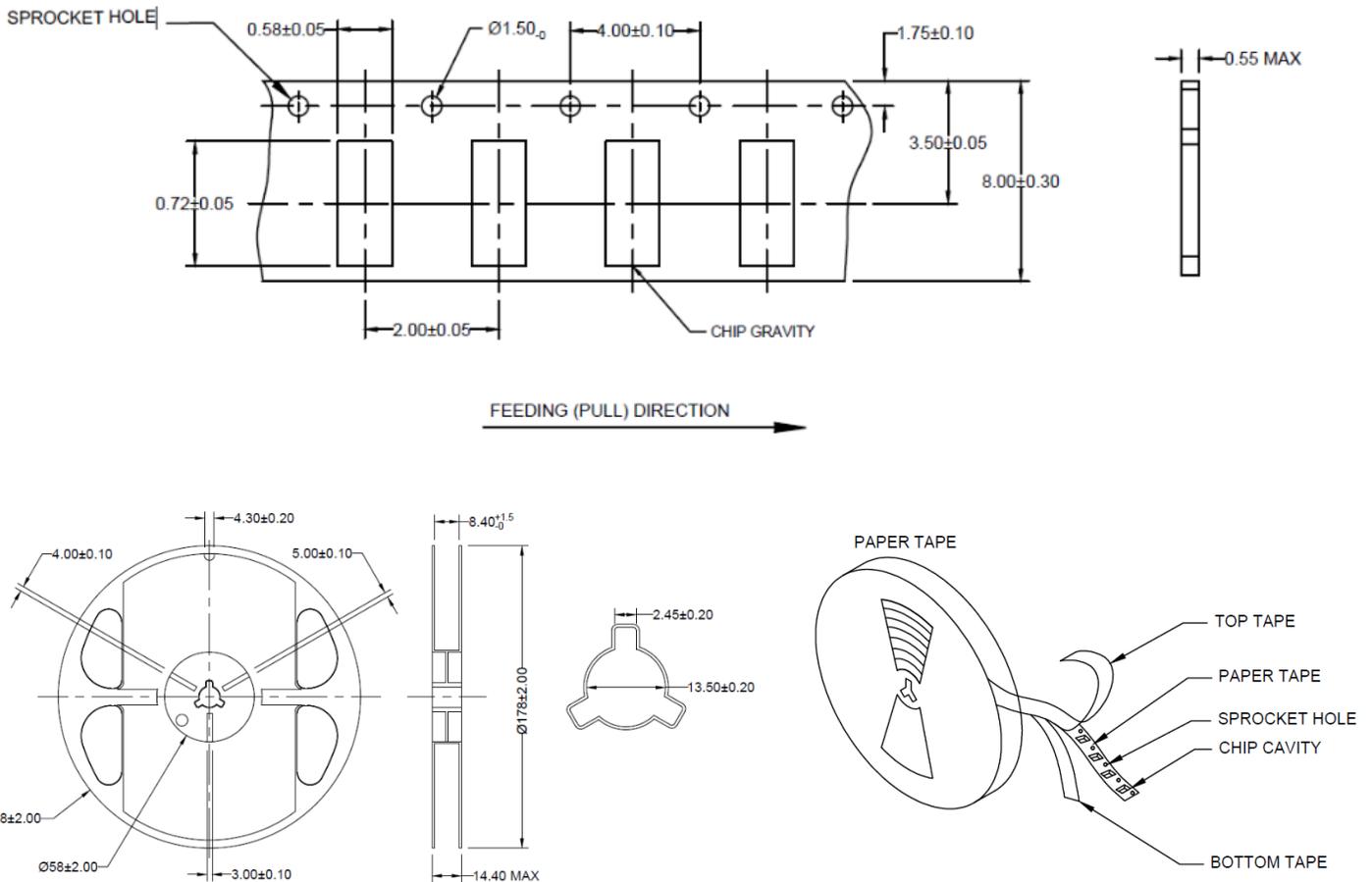
Check Inventory



**0.65 x 0.50 x 0.30mm**  
**RoHS/RoHS II Compliant**  
**MSL Level = 1**

## Packing

**Tape & Reel: 10,000 pcs/reel**



**Dimensions: mm**

**ATTENTION:** Abracon LLC's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependent Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon LLC is required. Please contact Abracon LLC for more information.



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