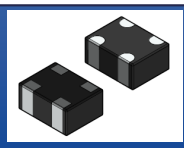
High-Speed Multilayer Common Mode Chokes



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

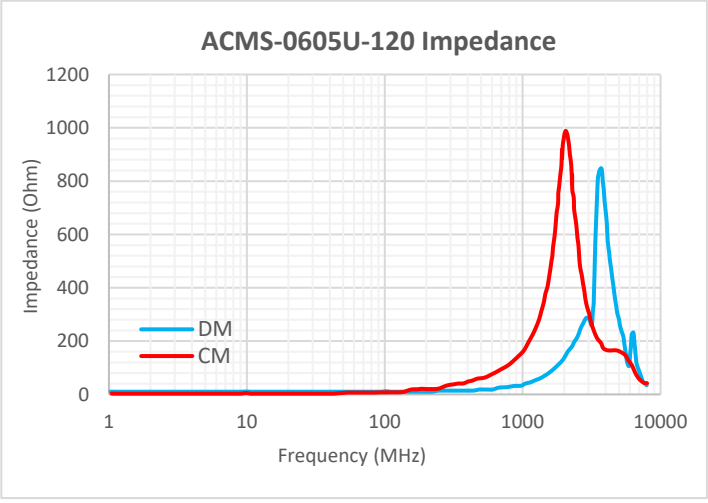
- High-frequency differential signal lines & data transmission protocols like USB, MIPI, RS-422/485 and others
- EMI and noise reduction in telecom infrastructure, multimedia devices, consumer electronics, and IoT systems

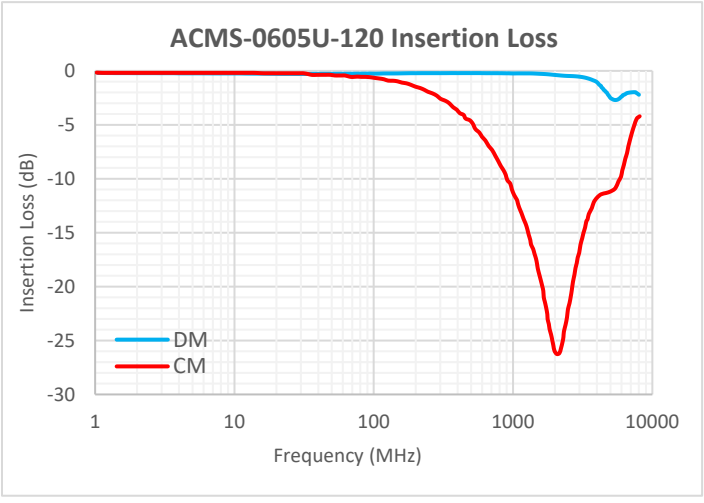
Electrical Specifications

Part Number*	Common Mode Impedance (Ω)@100MHz	Impedance Tolerance	DCR (Ω)	Rated Current (mA)	Rated Voltage (Vdc)	Withstand Voltage (VDC)	Insulation Resistance (MΩ)
	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
ACMS-0605U-900	90	20	5.0	100	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 temperture (in original packaging): -10°C to 40°C, <70% RH (Max.)
ACMS-0605U Series is RoHS Compliant and Pb free.





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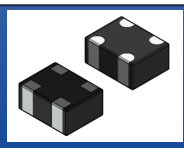
ABRACON IS ISO9001-2015 CERTIFIED

High-Speed Multilayer Common Mode Chokes



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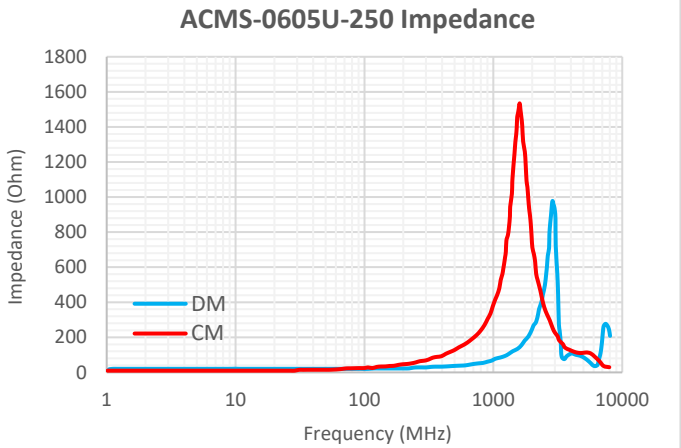
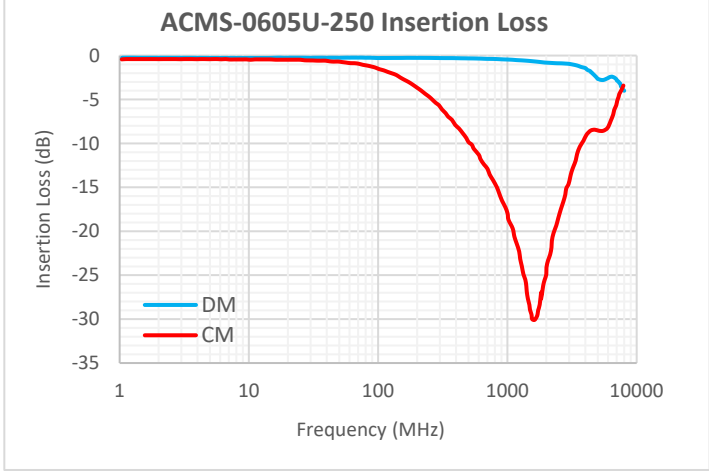
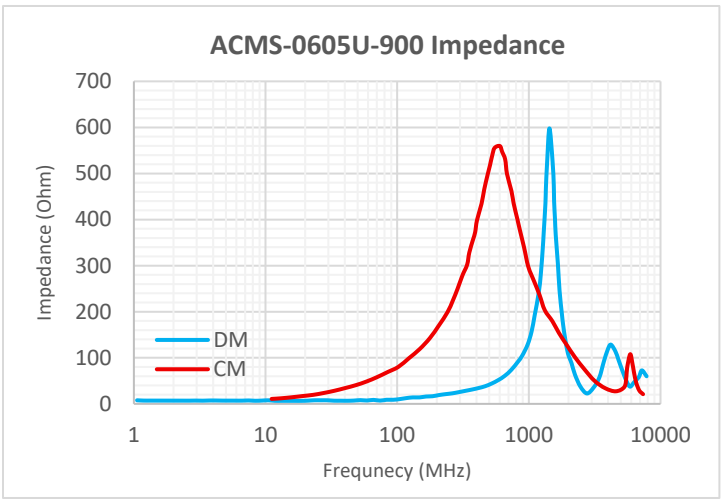
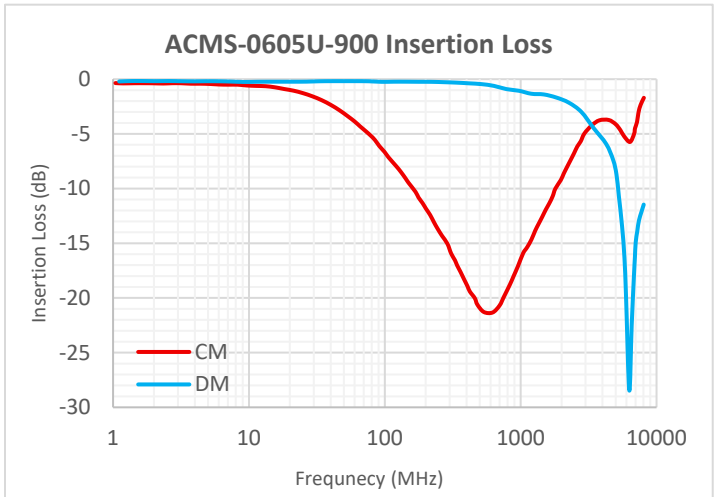
Electrical Specifications (Cont'd)









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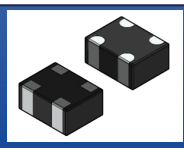

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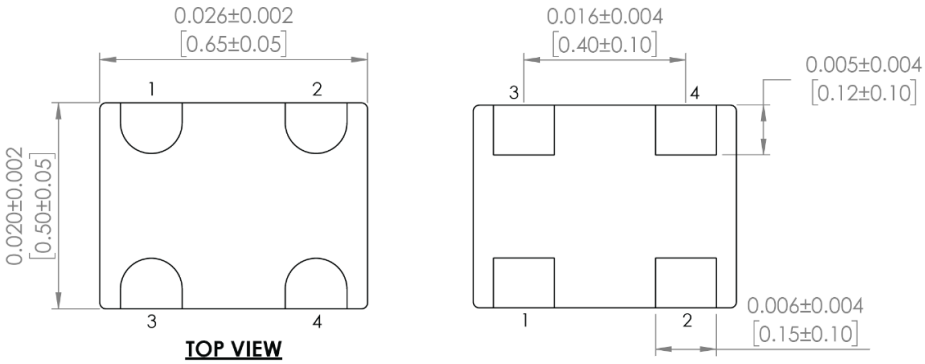
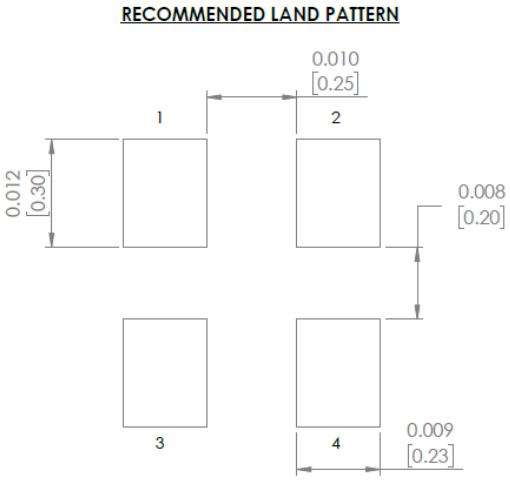
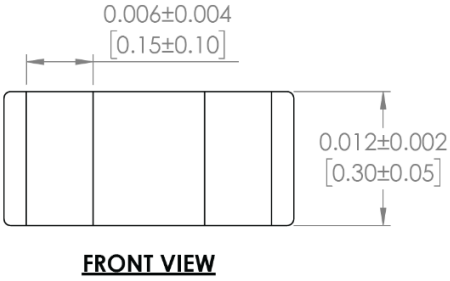
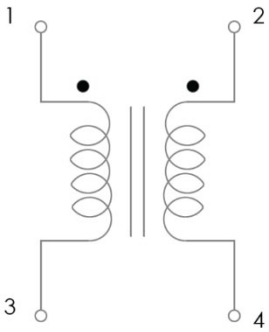
Mechanical Specifications









Dimensions: Inches[mm]

Part Identification

ACMS - ☐ U - ☐ - ☐

Package L x H (mm)
0605: 0.65mm x 0.5mm

Impedance
E.g. 120: 12Ω Typical

Packaging
T: Tape & Reel (10kpcs)
[Blank]: Bulk

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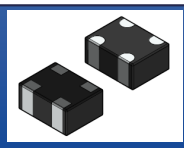

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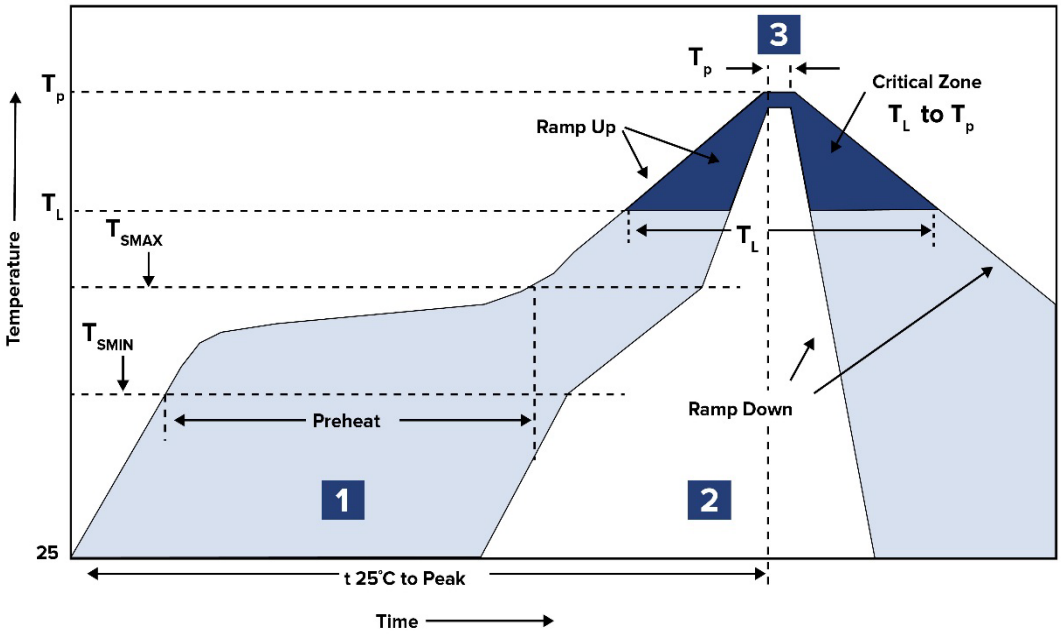
Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	T_{SMIN} ~ 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.

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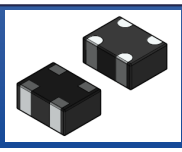

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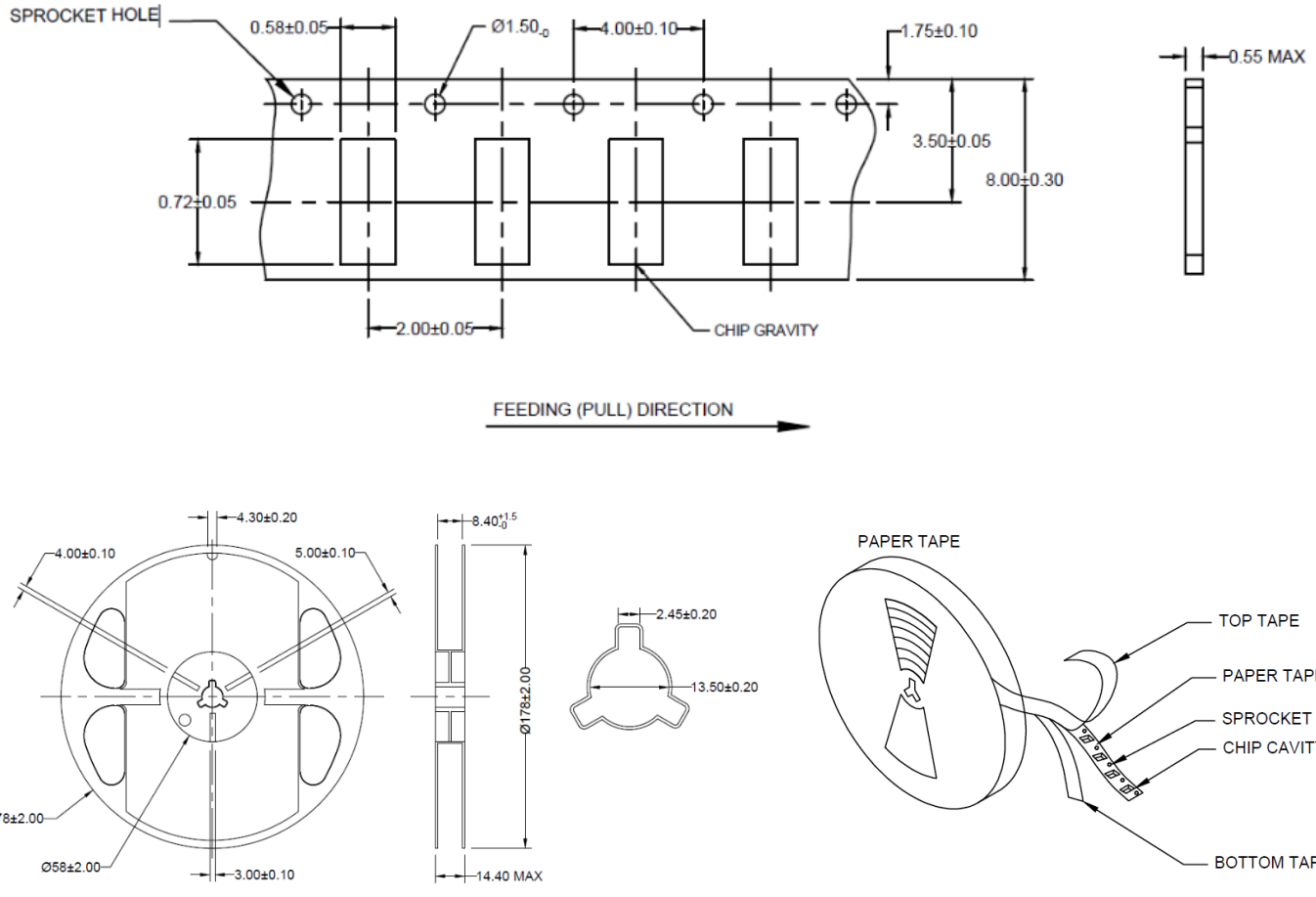
Packing

Tape & Reel: 10,000 pcs/reel



Dimensions: mm

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