



THE DATASHEET OF
AE3003



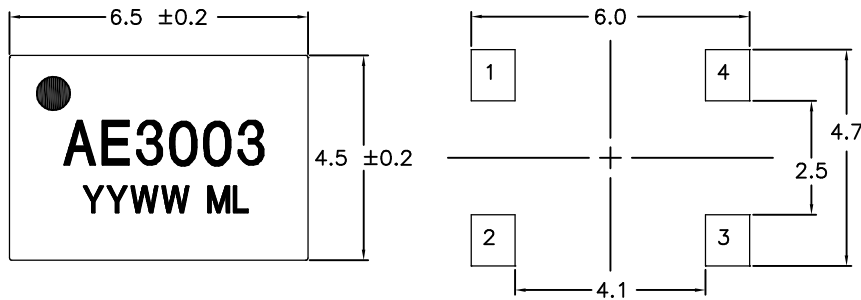


NOTES:

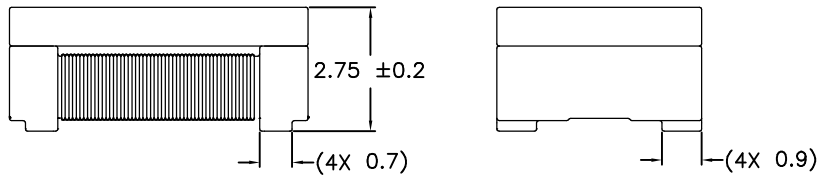
1. ROHS COMPLIANT
2. STORAGE TEMPERATURE: -50°C TO +150°C
3. COMPLIANCE TO J-STD:
 - A. J-STD-002: SOLDERABILITY AT 245°C REFLOW PROFILE
 - B. J-STD-020: LEVEL 1, NO MOISTURE SENSITIVE
4. PARTS ARE PACKAGED IN TAPE AND REEL

ELECTRICAL CHARACTERISTICS AT +25°C UNLESS OTHER SPECIFIED

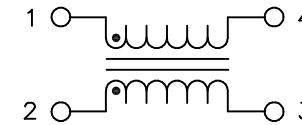
PARAMETER	SPECIFICATIONS				
OPERATING TEMP	-40°C TO +125°C				
TURNS RATIO AND POLARITY	1.00 ± 2%, PER SCHEMATIC				
DC RESISTANCE, EACH LINE	1.50 OHMS MAX				
INDUCTANCE (OCL)	100 uH TYP. @ 100 kHz, 100 mV				
INSERTION LOSS (SDD21)	DC-60 MHz				
	-1.0 dB MAX				
RETURN LOSS (SDD11) (Z OUT = 100 OHM ± 1%)	1-10 MHz	30 MHz	60 MHz		
	-28 dB MIN	-23 dB MIN	-18 dB MIN		
COMMON- TO COMMON- MODE REJECTION (SCC21)	1 MHz	10 MHz	60-100 MHz	300 MHz	1000 MHz
	-18 dB MIN	-35 dB MIN	-43 dB MIN	-30 dB MIN	-25 dB MIN
COMMON- TO DIFFERENTIAL- MODE REJECTION (SDS21)	1-10 MHz	100 MHz	300 MHz	1000 MHz	
	-65 dB MIN	-50 dB MIN	-35 dB MIN	-25 dB MIN	
CURRENT RATING	300 mA MAX CONTINUOUS, 500 mA MAX 10 ms				
VOLTAGE RATING	60 VDC MAX				



RECOMMENDED FOOTPRINT



FINAL OUTLINE



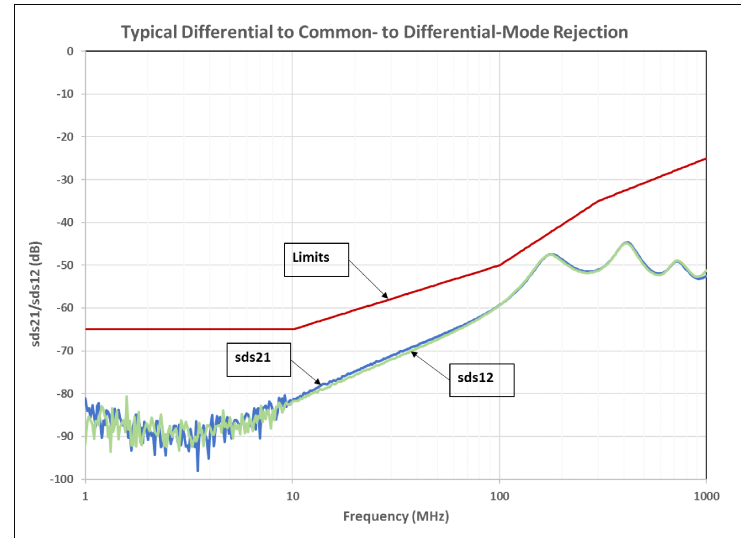
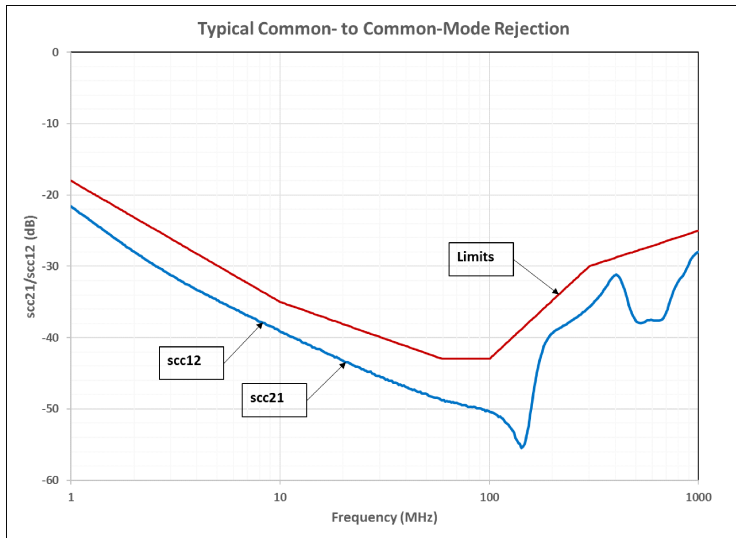
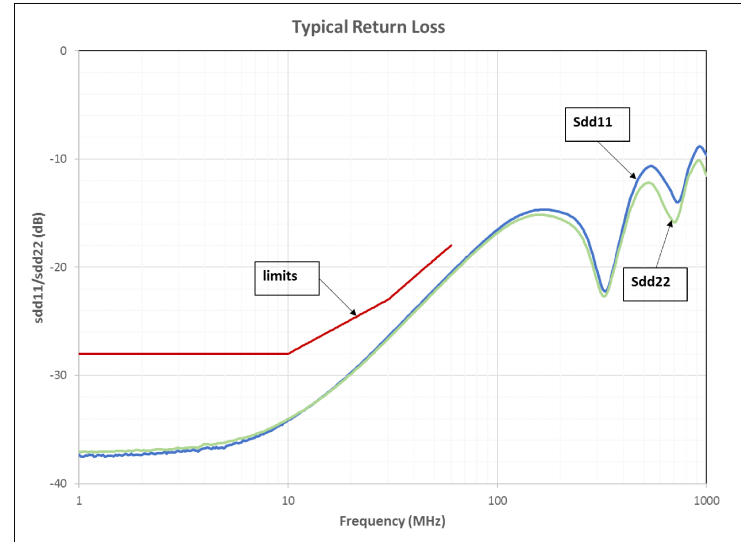
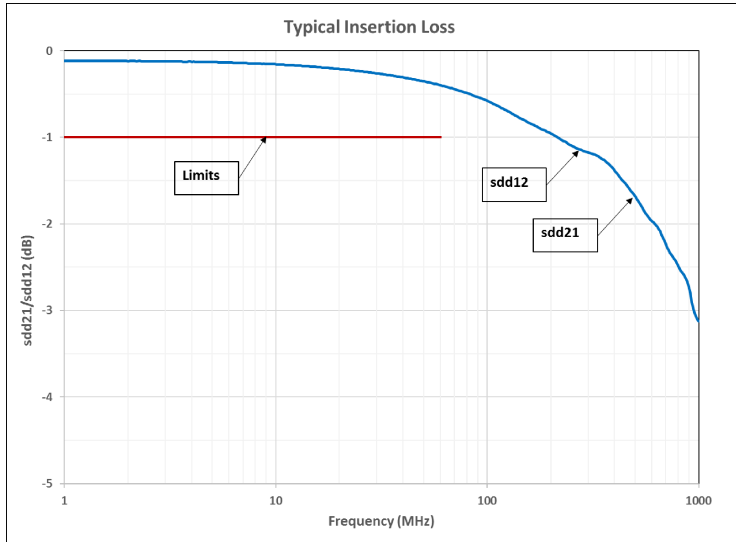
SCHEMATIC

ALL DIMENSION ARE SHOWN IN MILLIMETERS.
UNLESS OTHERWISE SPECIFIED,
THE FOLLOWING TOLERANCES APPLY:

X.X = ±0.1

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PRODUCT DESCRIPTION	TLA DRAWING	PS DRAWING	SHEET	PART NO.	DATASHEET REV.
CM CHOKE,100BASE-T1,PoDL,2518 SIZE	AE3003-10	PS-2808.003-B	1 OF 2	AE3003	J




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