



# TEST DATA OF TSD-1000-□□□

EMI/EMC Filter

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**COSEL CO.,LTD.**



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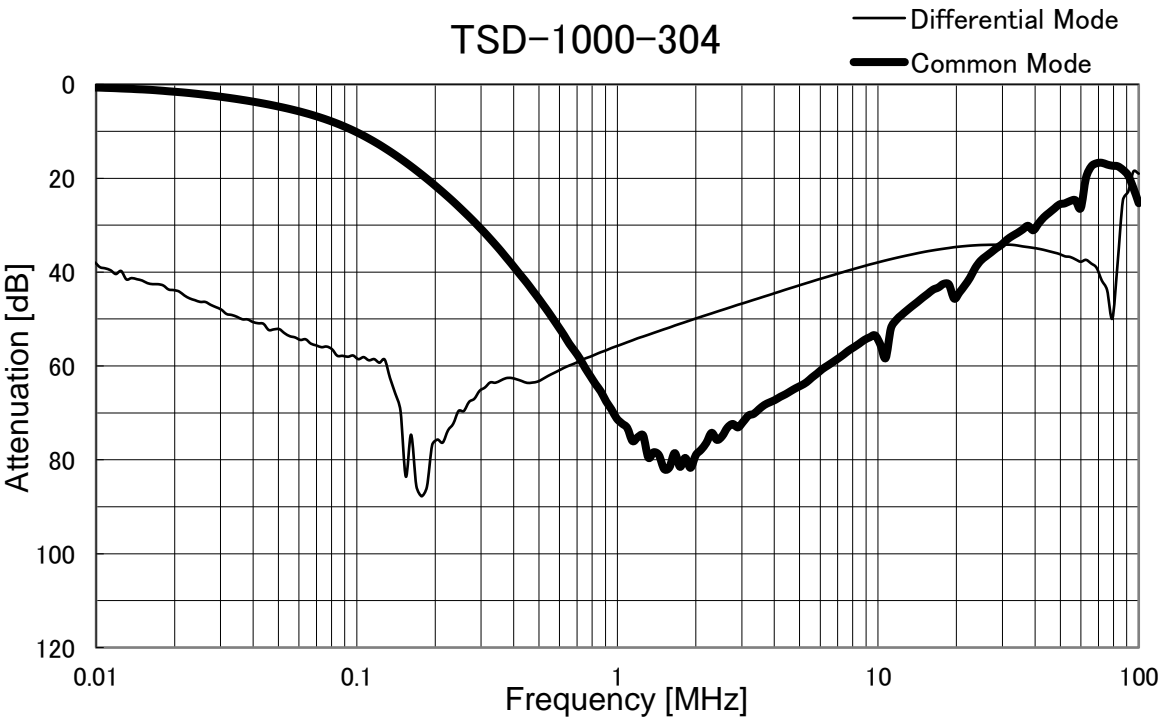
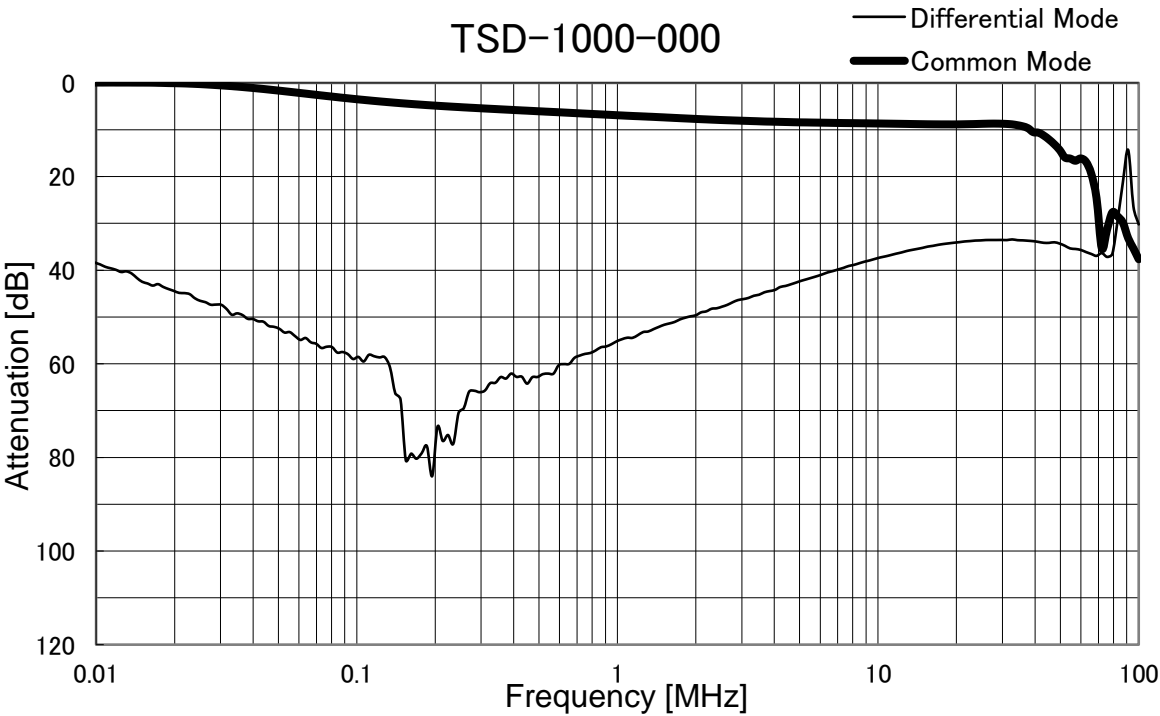
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Model		TSD-1000-□□□
Item		Attenuation Characteristics
Object		_____

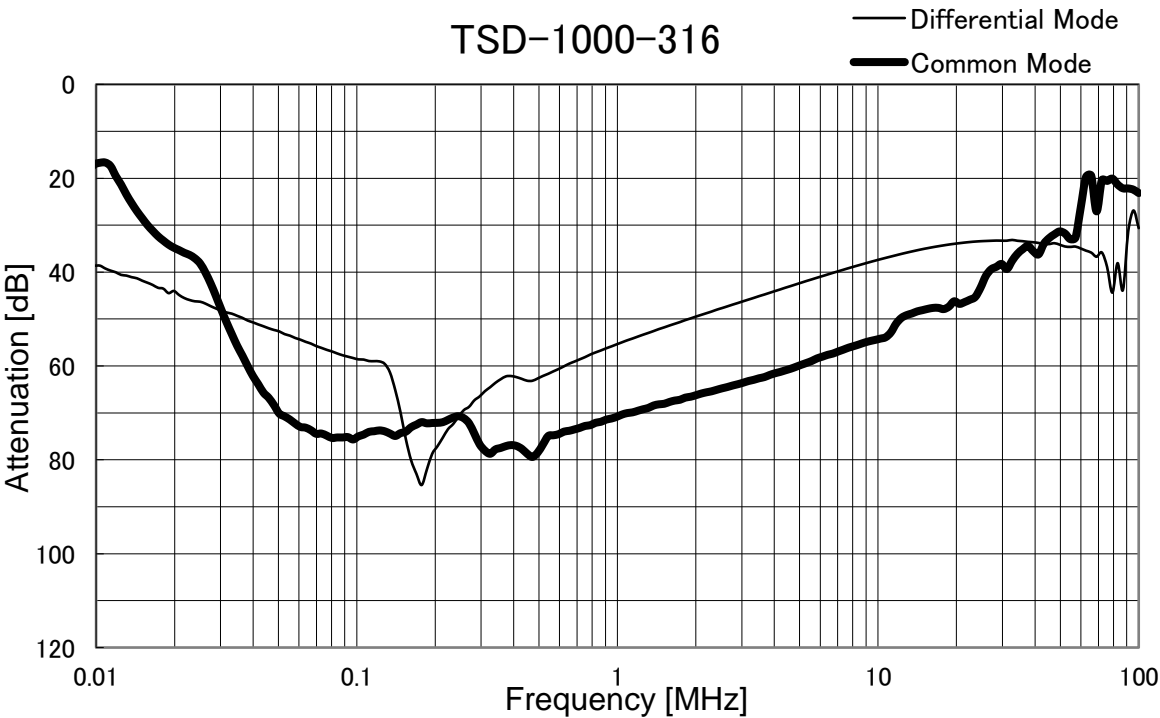
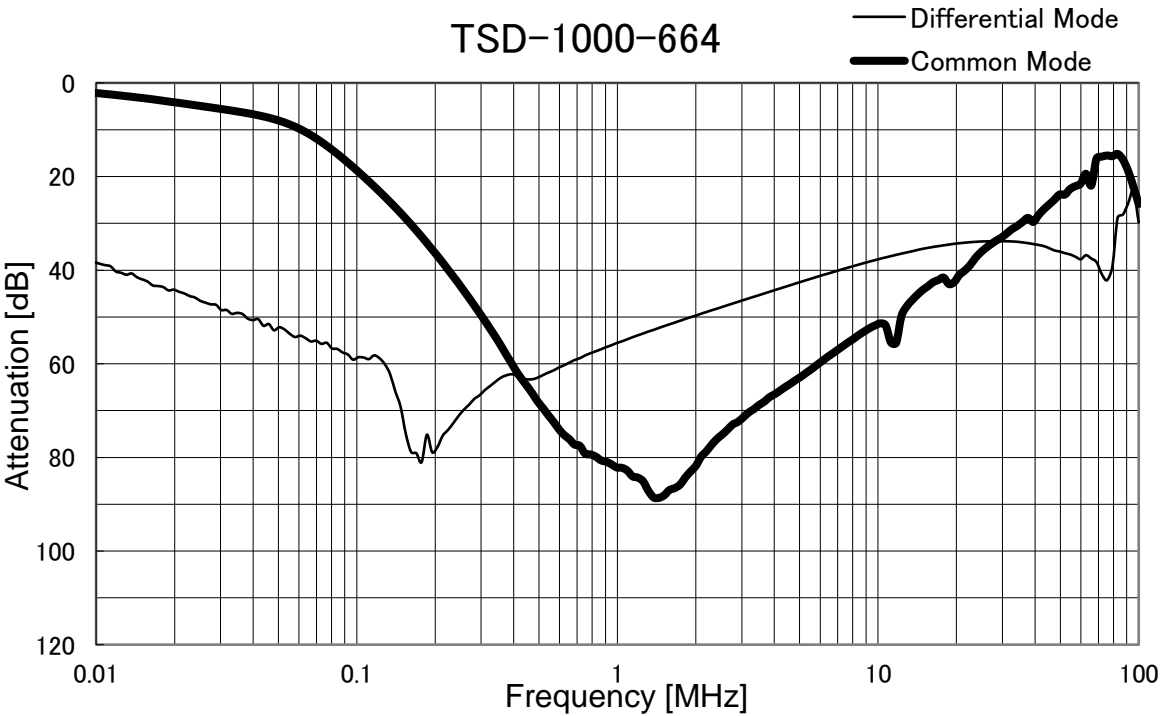
Temperature      25°C  
Testing Circuitry   Figure A





Model	TSD-1000-□□□
Item	Attenuation Characteristics
Object	_____

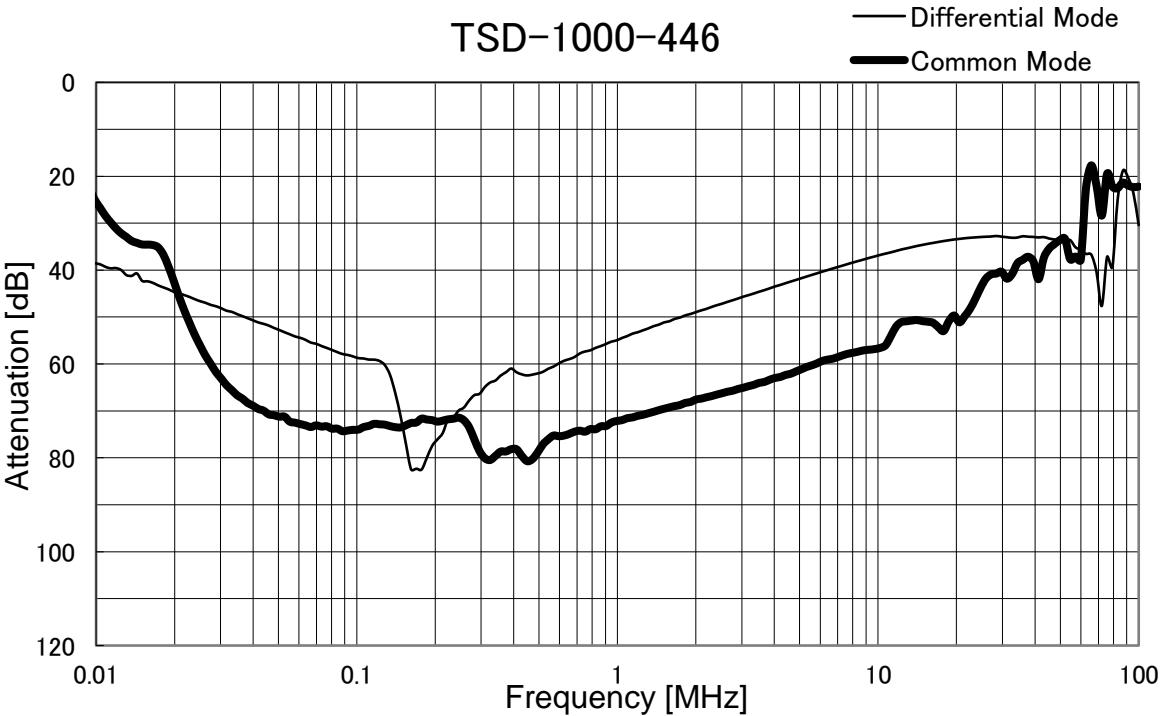
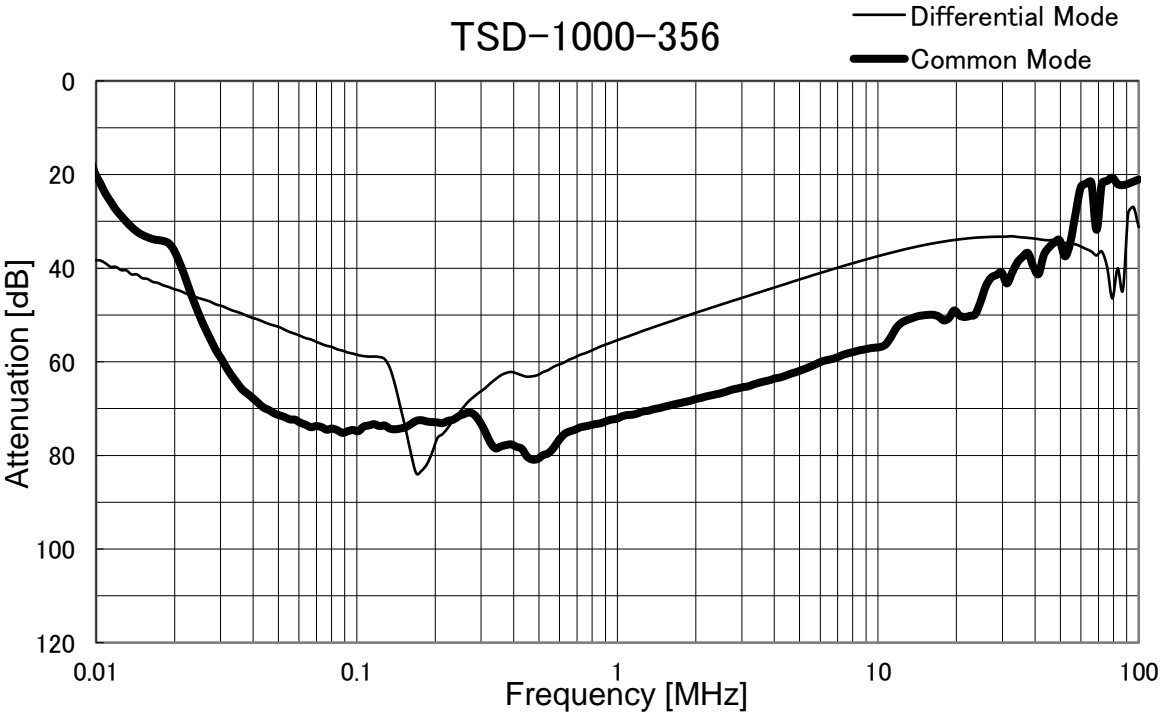
Temperature    25°C  
Testing Circuitry    Figure A





Model	TSD-1000-□□□
Item	Attenuation Characteristics
Object	_____

Temperature     25°C  
Testing Circuitry   Figure A





Model		TSD-1000-□□□
Item		Leakage Current
Object		_____

Temperature 25°C  
Testing Circuitry Figure B

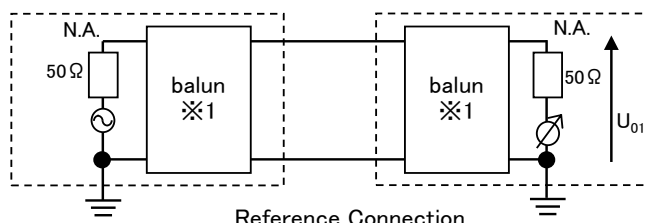
## 1.Results

[mA]

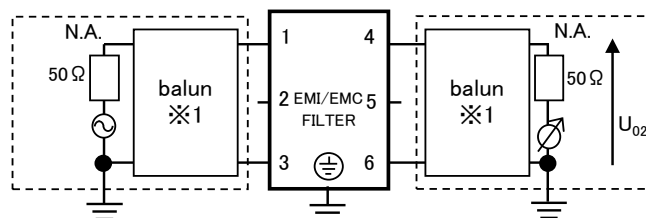
Model	Standards	Voltage system	Input Volt.		Note
			250[V]	500[V]	
TSD-1000-000	UL60939	Δ-connection	0.01	0.01	
		Y-connection	0.00	0.00	
TSD-1000-304	UL60939	Δ-connection	7.80	15.60	
		Y-connection	0.01	0.02	
TSD-1000-664	UL60939	Δ-connection	16.00	32.00	
		Y-connection	0.02	0.05	
TSD-1000-316	UL60939	Δ-connection	95.00	152.00	Δ-connection's rated voltage is 400V(440Vmax)
		Y-connection	0.02	0.05	
TSD-1000-356	UL60939	Δ-connection	95.00	152.00	Δ-connection's rated voltage is 400V(440Vmax)
		Y-connection	0.05	0.10	
TSD-1000-446	UL60939	Δ-connection	95.00	152.00	Δ-connection's rated voltage is 400V(440Vmax)
		Y-connection	0.06	0.10	

## 2.Condition

Leakage current value is concluded after measuring both phases of AC input and by choosing the larger one.



Attenuation =  $20\log(U_{01}/U_{02})$  [dB]  
 $U_{01}$  : Voltage in state without filters  
 $U_{02}$  : Voltage in state which added filters  
 N.A. : Network Analyzer



※1 Equilibrium measurement with mixed-mode S-parameters in the instrument

Figure A - 1 Differential mode attenuation measurement



Attenuation =  $20\log(U_{01}/U_{02})$  [dB]  
 $U_{01}$  : Voltage in state without filters  
 $U_{02}$  : Voltage in state which added filters  
 N.A. : Network Analyzer

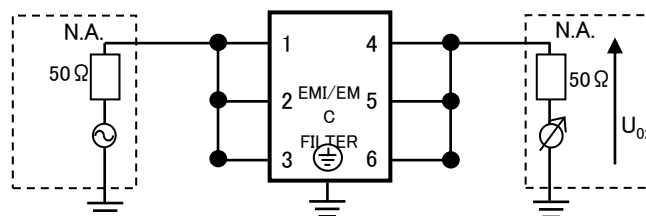


Figure A - 2 Common mode attenuation measurement

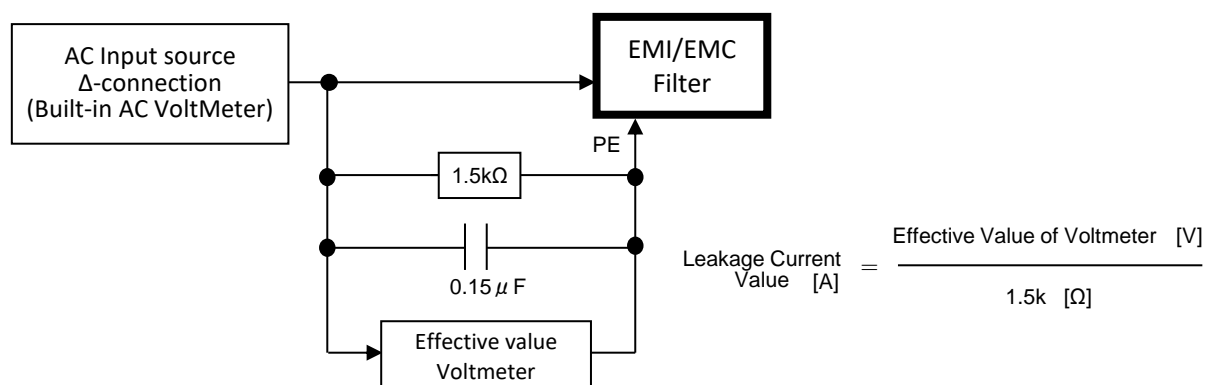


Figure B - 1 Leakage current measurement ( UL60939 Δ-connection)

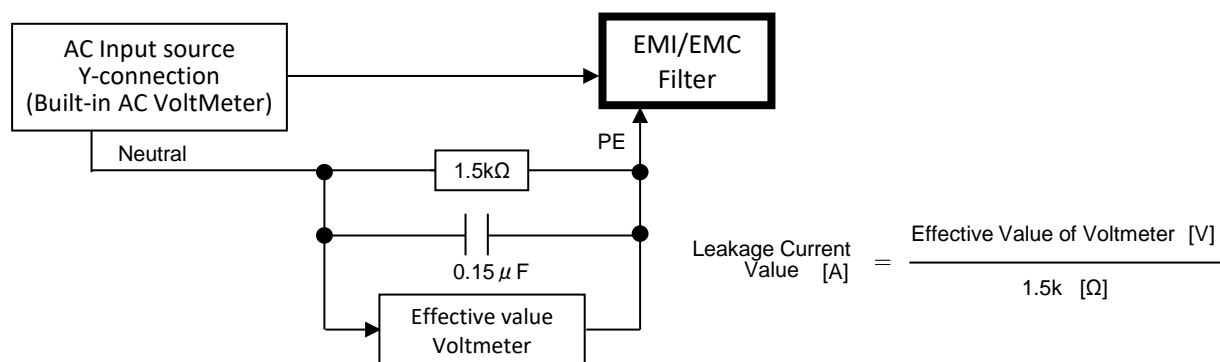


Figure B - 2 Leakage current measurement ( UL60939 Y-connection)