

**Suppression**

<b>Order code</b>	<b>Manufacturer code</b>	<b>Description</b>
26-6122	DS306-55Y5S470M50	47PF 50V T-NETWORK CAPACITOR
26-6127	DS306-55Y5S101M50	100PF 50V T-NETWORK CAPACITOR
26-6132	DS306-55Y5S271M50	270PF 50V T-NETWORK CAPACITOR (RC)
26-6137	DS306-55Y5S102M50	1000PF 50V T-NETWORK CAPACITOR (RC)
26-6142	DS306-55Y5S222M50	2200PF 50V T-NETWORK CAPACITOR
26-6147	DS306-55YFZ103Z50	10000PF 50V T-NETWORK CAP. (RC)
26-6172	DSS306-55Y5S220M100	22PF 100V T-NETWORK CAPACITOR
26-6177	DSS306-55Y5S470M100	47PF 100V T-NETWORK CAPACITOR
26-6182	DSS306-55Y5S101M100	100PF 100V T-NETWORK CAPACITOR (RC)
26-6187	DSS306-55Y5S221M100	220PF 100V T-NETWORK CAPACITOR
26-6192	DSS306-55Y5S271M100	270PF 100V T-NETWORK CAPACITOR
26-6197	DSS306-55Y5S471M100	470PF 100V T-NETWORK CAPACITOR
26-6202	DSS306-55Y5S102M100	1000PF 100V T-NETWORK CAP. (RC)
26-6207	DSS306-55Y5U222Z100	2200PF 100V T-NETWORK CAP.
26-6212	DSS306-55FZ103N100	10000PF 100V T-NETWORK CAP. (RC)
26-6217	DSS306-55F223Z16	22000PF 16V T-NETWORK CAP.

<b>Suppression</b>	<b>Page 1 of 3</b>
The enclosed information is believed to be correct, Information may change 'without notice' due to product improvement. Users should ensure that the product is suitable for their use. E. & O. E.	Revision A 04/07/2003

# EMI SUPPRESSION FILTER

## Disc-Type EMIFIL® DS□306 Series

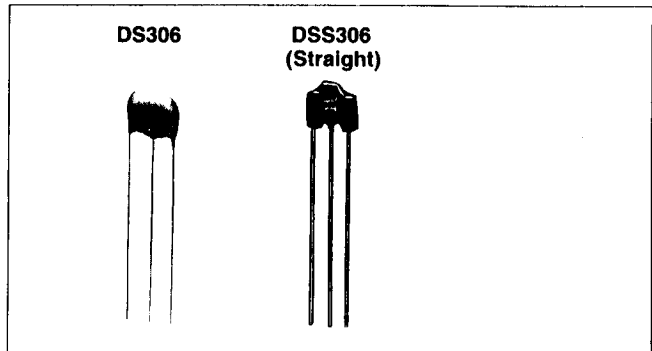
Compact, high-performance EMI suppression filters, DS□306 series can be mounted at 2.54mm pitch. Excellent cost-performance and compact enough to be applied to any type of equipment.

### ■FEATURES

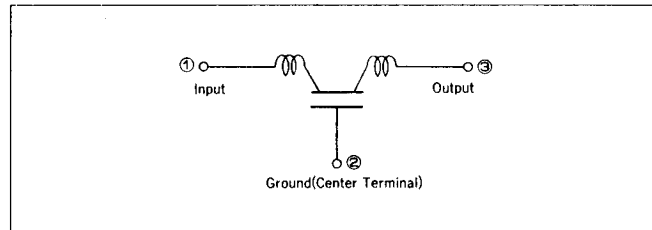
1. Because of its high noise suppression effect, it can be safely used even where adverse electromagnetic fields exist.
2. Plate type dielectric plus 3-terminal construction produces excellent high-frequency characteristics.

### ■APPLICATIONS

1. Helps office equipment (such as facsimiles, PPCs, electronic typewriters) meet FCC, VCCI and VDE regulations.
2. Helps peripheral equipment (such as computers and displays, FDDs, printers) meet the FCC, VCCI and VDE regulations.
3. Digital TVs, VCRs.
4. Improves noise resistance of automotive electronics.



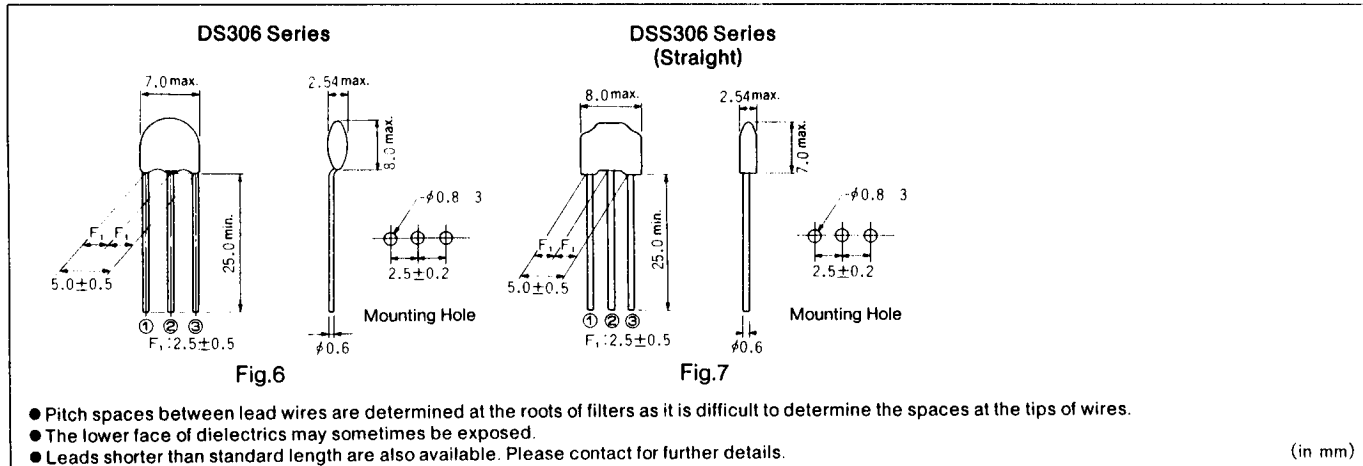
### ■EQUIVALENT CIRCUIT



### ■RATINGS

Item	Rated Values
Rated Voltage	16VDC~100VDC
Rated Current	6A
Withstand Voltage	40 ~250VDC
Operating Temperature Range	-25 to +85°C
Storage Temperature Range	-25 to +85°C

### ■DIMENSIONS (Please refer to pages 56 and 57 for taping specs.)



**RATINGS FOR LISTED COMPONENTS** (Please refer to pages 56 and 57 for taping specs.)

Part Number	Insertion Loss	Capacitor			Ferrite Beads	Dimension		
		Capacitance	Rated Volt.	Temp. Char.				
DS306-55Y5S470M50	Fig.9-3	47pF ±20%	50VDC	±22%	None	Fig.6		
DS306-55Y5S101M50	Fig.9-4	100pF ±20%						
DS306-55Y5S271M50	Fig.9-5	270pF ±20%						
DS306-55Y5S102M50	Fig.9-6	1000pF +20%						
DS306-55Y5S222M50	Fig.9-7	2200pF ±20%						
DS306-55FZ103Z50	Fig.9-8	10000pF $\begin{matrix} +80\% \\ -20\% \end{matrix}$					$\begin{matrix} +30\% \\ -85\% \end{matrix}$	
DSS306-□Y5S220M100	Fig. 11-1	22pF ±20%	100VDC	±22%	Incorporated	Fig.7		
DSS306-□Y5S470M100	Fig. 11-3	47pF ±20%						
DSS306-□Y5S101M100	Fig. 11-4	100pF ±20%						
DSS306-□Y5S221M100	Fig. 11-6	220pF ±20%						
DSS306-□Y5S271M100	Fig. 11-7	270pF ±20%						
DSS306-□Y5S471M100	Fig. 11-8	470pF ±20%						
DSS306-□Y5S102M100	Fig. 11-9	1000pF ±20%					$\begin{matrix} +20\% \\ -55\% \end{matrix}$	
DSS306-□Y5U222Z100	Fig. 11-10	2200pF $\begin{matrix} +80\% \\ -20\% \end{matrix}$					$\begin{matrix} +30\% \\ -85\% \end{matrix}$	
DSS306-□FZ103N100	Fig. 11-11	10000pF ±30%					$\begin{matrix} +30\% \\ -80\% \end{matrix}$	
DSS306-□F223Z16	Fig. 11-12	22000pF $\begin{matrix} +80\% \\ -20\% \end{matrix}$					16VDC	$\begin{matrix} +30\% \\ -80\% \end{matrix}$

□Part Shows Lead Form. (55 : Straight Type)

**INSERTION LOSS CHARACTERISTICS**

Insertion Loss Measuring Circuit

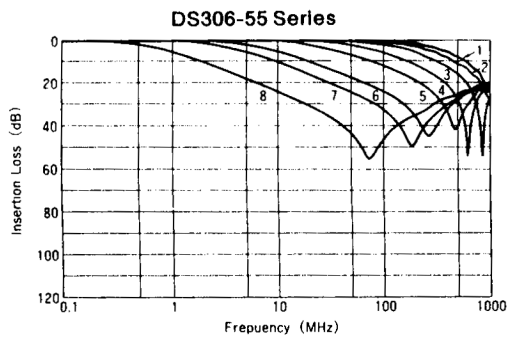
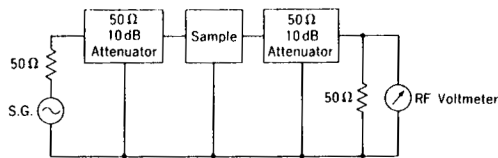


Fig.9

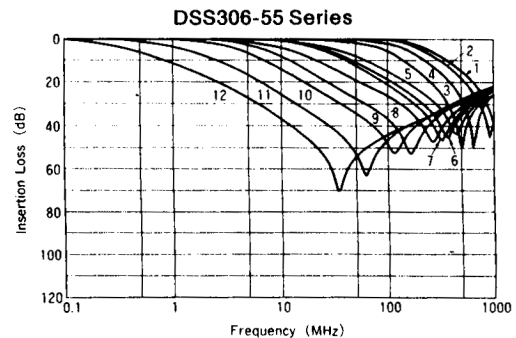


Fig.11