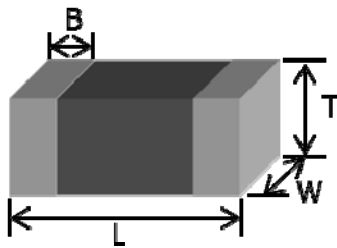


ESD Notch Filters : AVRF041A150MT242

Features

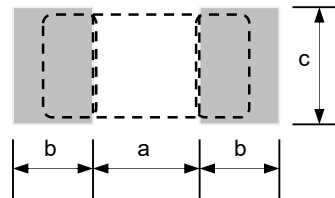
- Suppression of TDMA noise by wireless communications
- Improved receiver sensitivity for wireless communications
- Electronic circuits is protected from ESD with the adoption of varistor material
- Commercial grade
- Size : EIA01005 (0.4x0.2mm)
- High ESD durability : IEC61000-4-2, 8kV (Level4)
- Operating temperature range : -40°C ~ 85°C

Shapes & Dimensions



Unit / mm				
EIA	L	W	T	B
01005	0.4±0.02	0.2±0.02	0.2±0.02	0.07 Min.

Recommended PCB Pattern



Unit / mm			
EIA	a	b	c
01005	0.20	0.15 to 0.20	0.18 to 0.20

Product Identification

AVRF 04 1A 150 M T 242
(1) (2) (3) (4) (5) (6) (7)

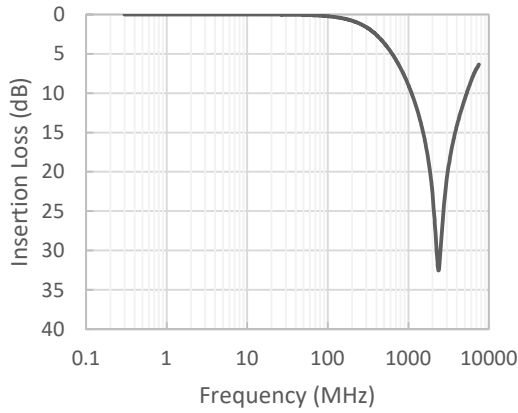
(1)	Series name / AVRF Series
(2)	Dimension / 04:0.4x0.2(mm)
(3)	Maximum continuous voltage / 1A : 10(V)
(4)	Capacitance / 150:15x10 ¹ (pF)
(5)	Capacitance tolerance / M : ±20(%)
(6)	Packaging scheme / T : Taping
(7)	Notch Freq. / 242:24x10 ² (MHz)

Electrical Characteristics

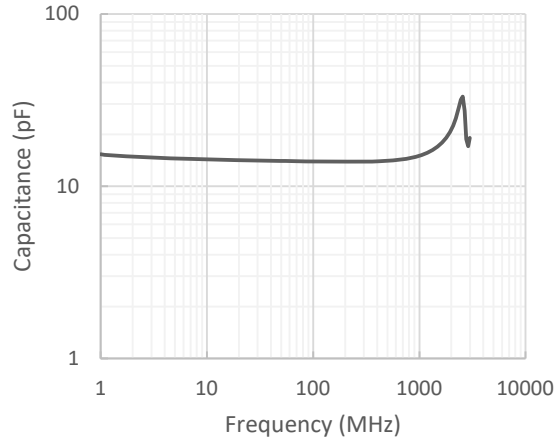
TDK Product Name	Insertion Loss	Rated voltage	Breakdown voltage	Capacitance	ESD durability IEC61000-4-2	Application
		DC	DC1mA	1MHz,1Vrms	150pF/330Ω	
	Min.	Max.				
	IL (dB)	Vdc (V)	Vbr (V)	C (pF)		
AVRF041A150MT242	20 (2.4GHz)	10	16 (12.8~19.2)	15 (12~18)	8kV (Level4)	WiFi/Bluetooth

ESD Notch Filters : AVRF041A150MT242

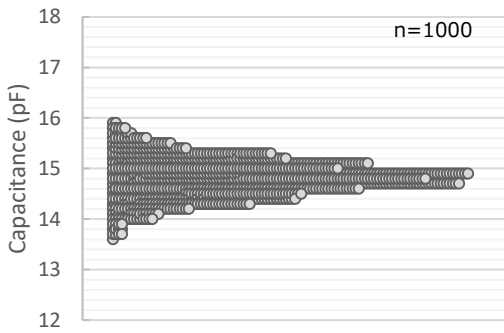
Insertion Loss



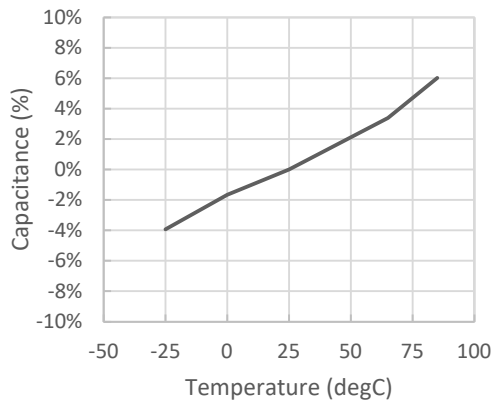
Capacitance - Freq.



Capacitance Dispersion

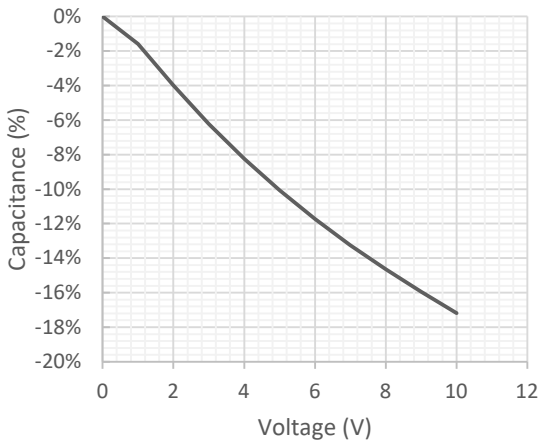


Capacitance - Temp. ※1MHz, 1Vrms

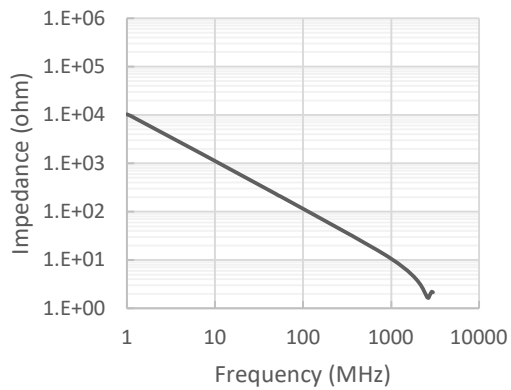


DC bias

※1MHz, 1Vrms

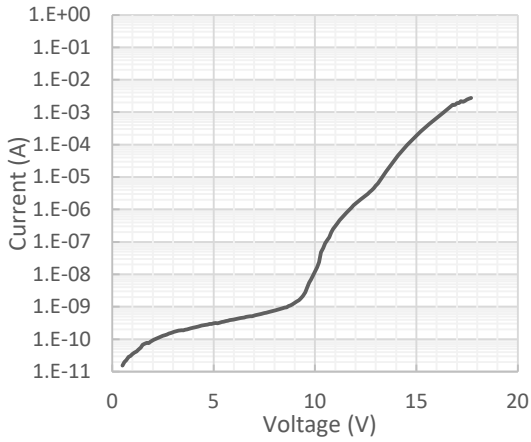


Impedance - Freq.

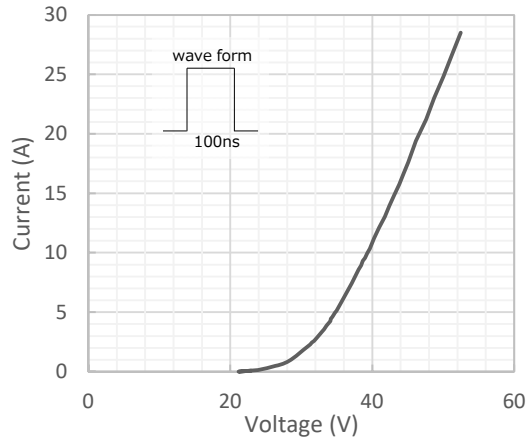


ESD Notch Filters : AVRF041A150MT242

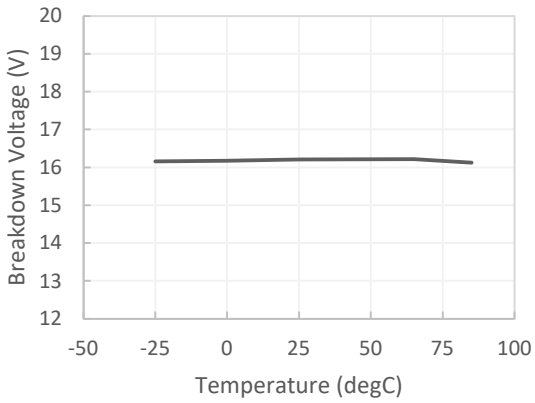
Current - Voltage



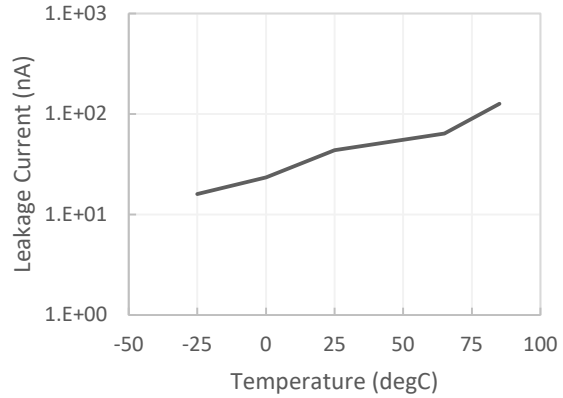
Current - Voltage (TLP)



Breakdown Voltage - Temp.



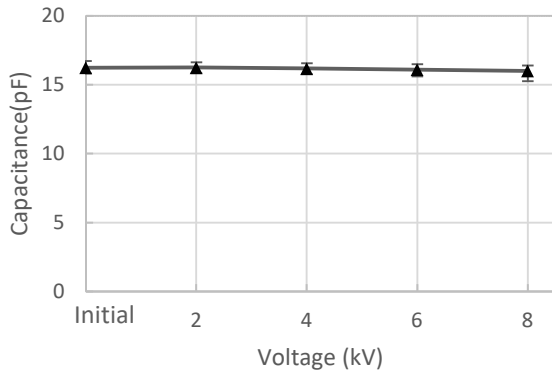
Leakage current - Temp.



※ Voltage : 10 V

ESD Discharge

▶ 150pF/330ohm, ~±8kV, 10times



※Criteria : Capacitance \leq 20 pF