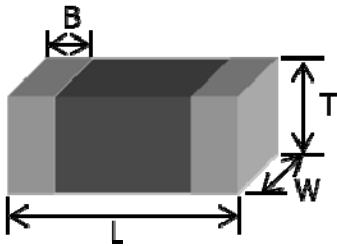


# ESD Notch Filters : AVRF161Q861LT201

## Features

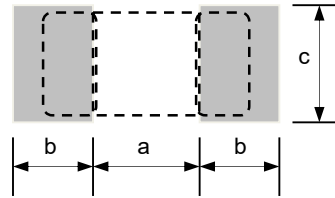
- Suppression of TDMA noise by wireless communications
- Improved receiver sensitivity for wireless communications
- Electronic circuits is protected from ESD with the adoption of varistor material
- Commercial grade
- Size : EIA0603 (1.6x0.8mm)
- High ESD durability : IEC61000-4-2, Contact-25kV
- Operating temperature range : -40°C ~ 85°C

## Shapes & Dimensions



Unit / mm				
EIA	L	W	T	B
0603	1.6±0.1	0.8±0.1	0.8±0.1	0.2 Min.

## Recommended PCB Pattern



Unit / mm			
EIA	a	b	c
0603	0.6 to 0.8	0.6 to 0.8	0.6 to 0.8

## Product Identification

**AVRF**   **16**   **1Q**   **861**   **L**   **T**   **201**  
 (1)   (2)   (3)   (4)   (5)   (6)   (7)

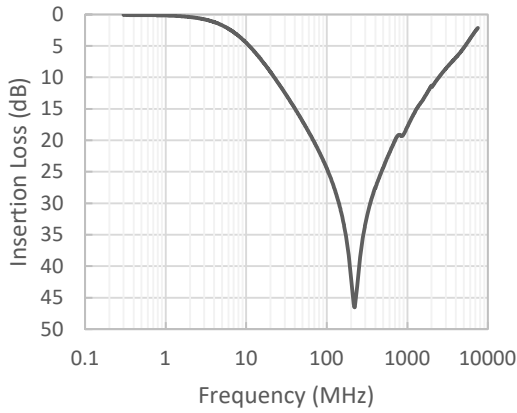
(1)	Series name / AVRF Series
(2)	Dimension / 16:1.6x0.8(mm)
(3)	Maximum continuous voltage / 1Q : 19(V)
(4)	Capacitance / 861:86x10 <sup>1</sup> (pF)
(5)	Capacitance tolerance / L : ±15(%)
(6)	Packaging scheme / T : Taping
(7)	Notch Freq. / 201:20x10 <sup>1</sup> (MHz)

## Electrical Characteristics

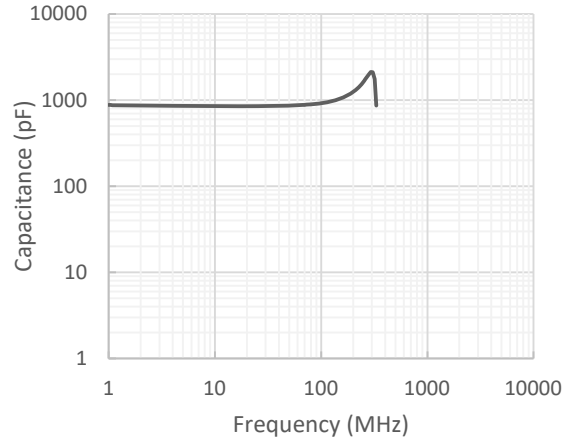
TDK Product Name	Insertion Loss	Rated voltage	Breakdown voltage	Capacitance	ESD durability IEC61000-4-2	Application
		DC	DC1mA	1MHz,1Vrms	150pF/330Ω	
	Min.	Max.				
	IL (dB)	Vdc (V)	Vbr (V)	C (pF)		
AVRF161Q861LT201	20 (200MHz)	19	27.0 (24.0~30.0)	860 (731~989)	Contact-25kV	Class D-Amp Noise

# ESD Notch Filters : AVRF161Q861LT201

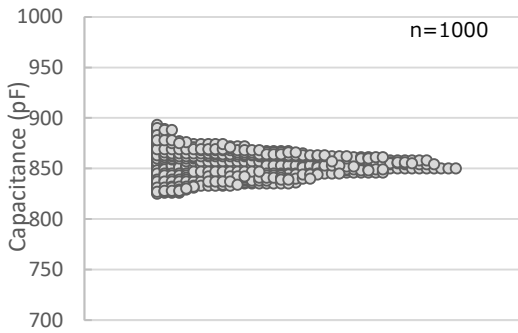
**Insertion Loss**



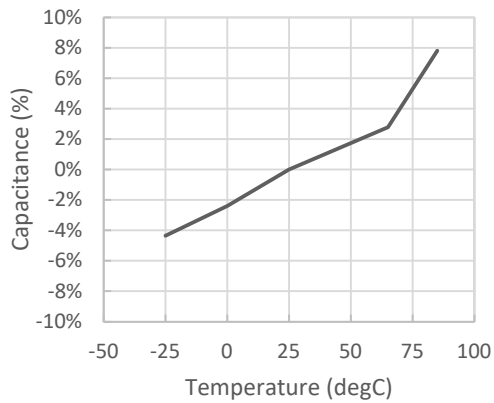
**Capacitance - Freq.**



**Capacitance Dispersion**

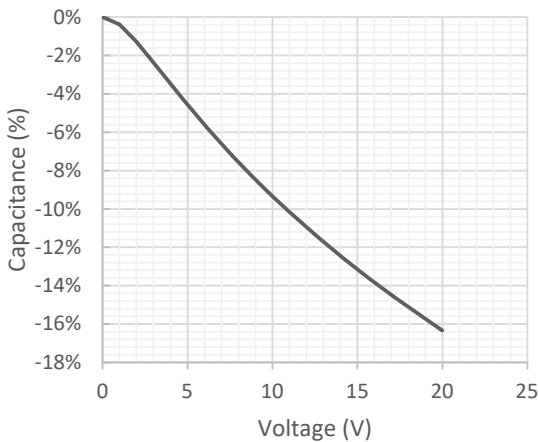


**Capacitance - Temp.** ※1MHz, 1Vrms

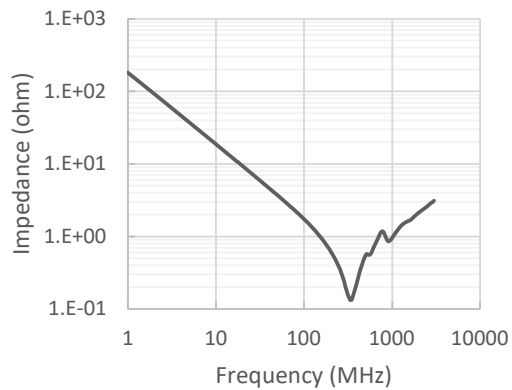


**DC bias**

※1MHz, 1Vrms

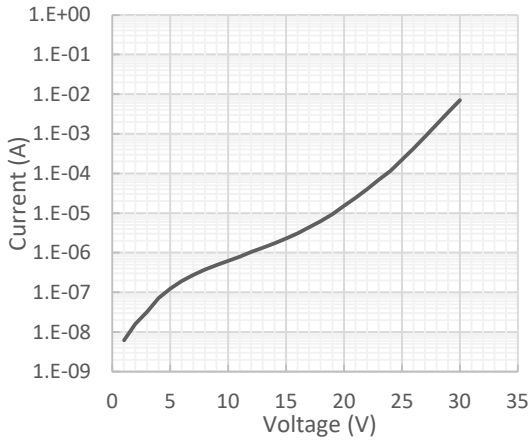


**Impedance - Freq.**

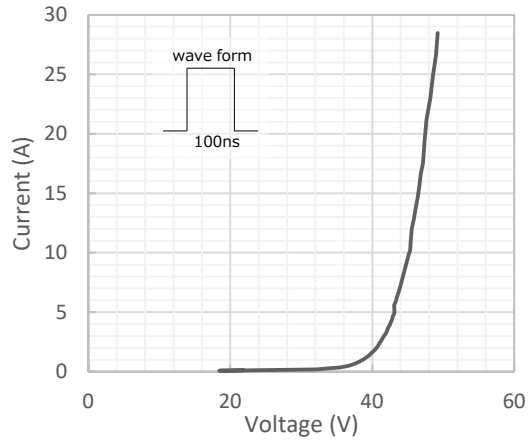


# ESD Notch Filters : AVRF161Q861LT201

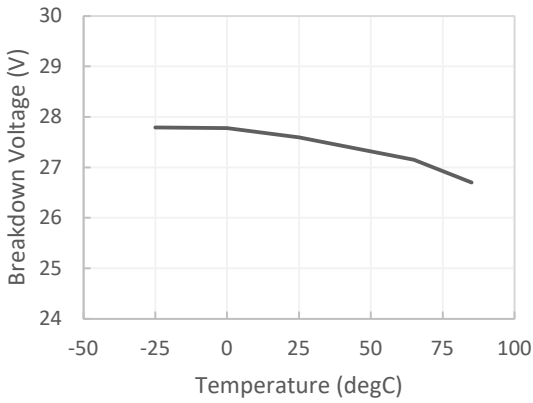
**Current - Voltage**



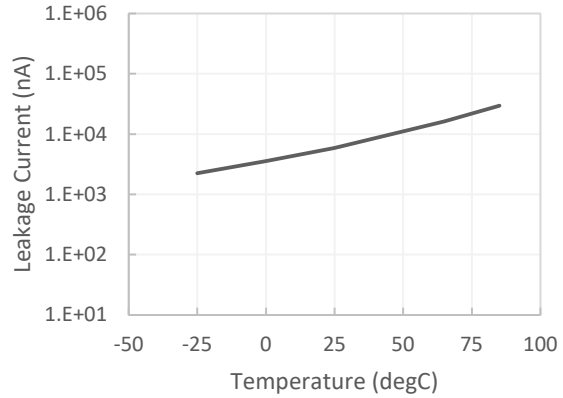
**Current - Voltage (TLP)**



**Breakdown Voltage - Temp.**



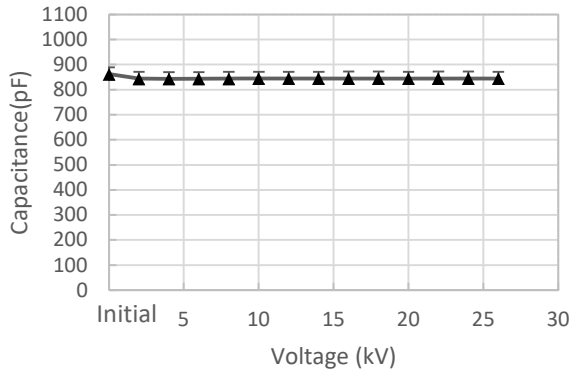
**Leakage current - Temp.**



※ Voltage : 19 V

## ESD Discharge

▶ 150pF/330ohm, ~±25kV, 10times



※Criteria : Capacitance  $\leq$  1090 pF