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General Information

Series	R53B
Dielectric	Metallized Polypropylene
Style	Radial
Features	Automotive Grade, EMI Safety
RoHS	Yes
Termination	Tinned Wire
Lead	Wire Leads
Safety Class	X2
Qualifications	ENEC, UL, cUL, CQC, AEC-Q200
THB Performance	Yes
Typical Component Weight	4.1 g
Construction	Parallel

Dimensions

L	18mm +/-0.5mm
H	16mm +0.3/-0.5mm
T	10mm +0.3/-0.5mm
S	15mm +/-0.4mm
LL	25mm +2/-1mm
F	0.8mm +/-0.05mm

Packaging Specifications

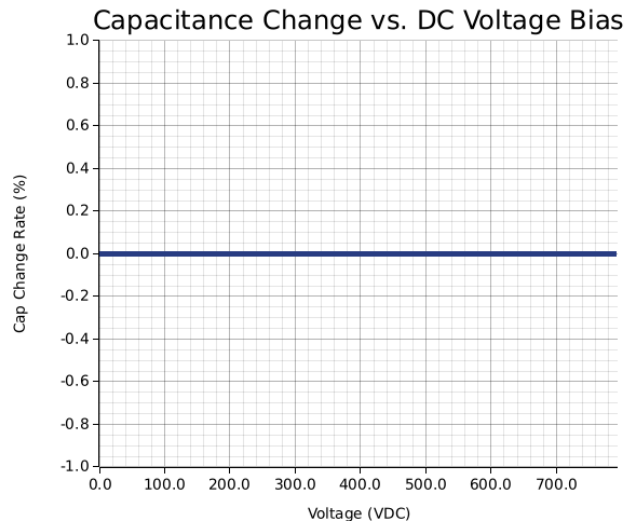
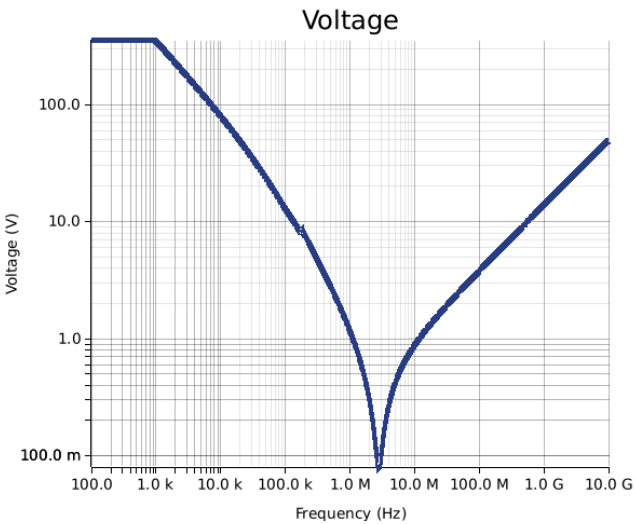
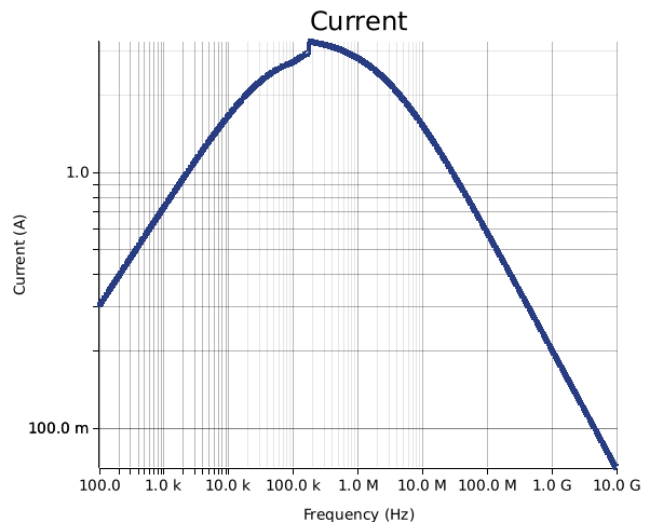
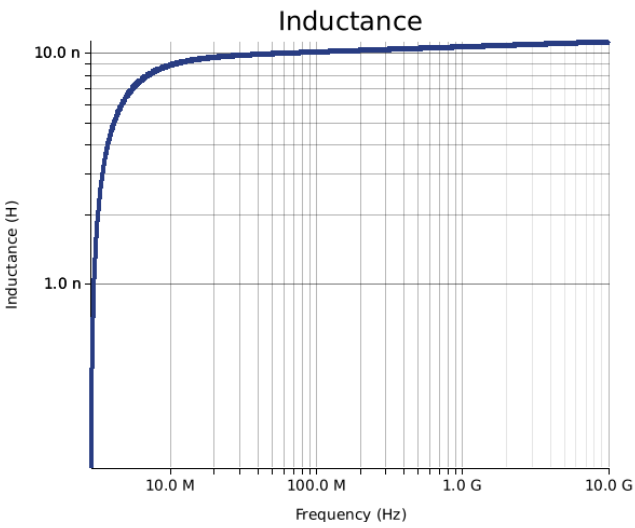
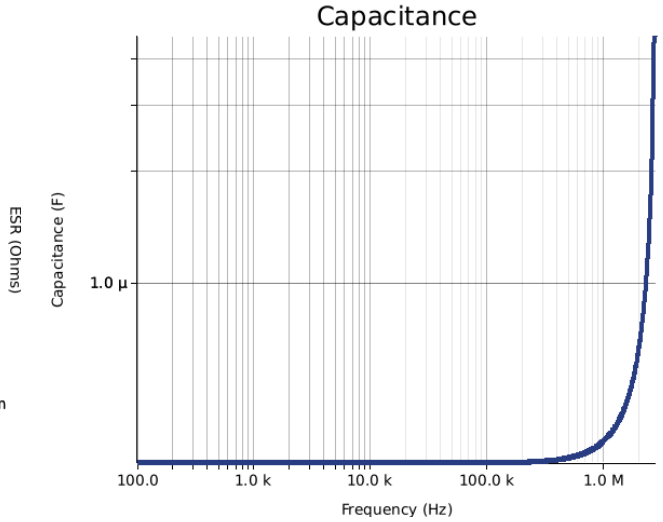
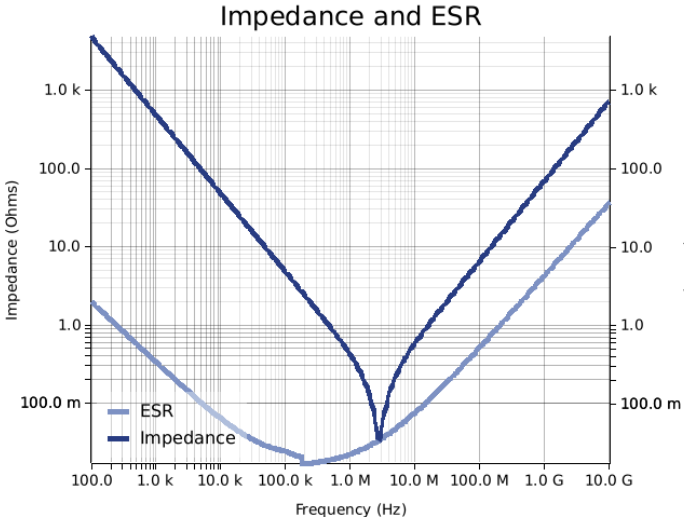
Packaging	Pizza, Box
Packaging Quantity	500

Specifications

Capacitance	0.33 uF
Tolerance	10%
Voltage DC	800 VDC
Voltage AC	350 VAC (X2)
Temperature Range	-40/+125°C
Rated Temperature	110°C
Dissipation Factor	0.5% 1kHz
Insulation Resistance	30 GOhms
Max dV/dt	400 V/us

Simulations

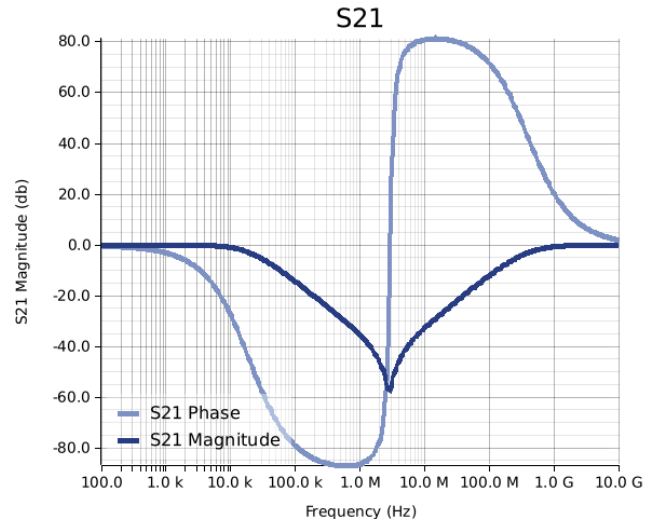
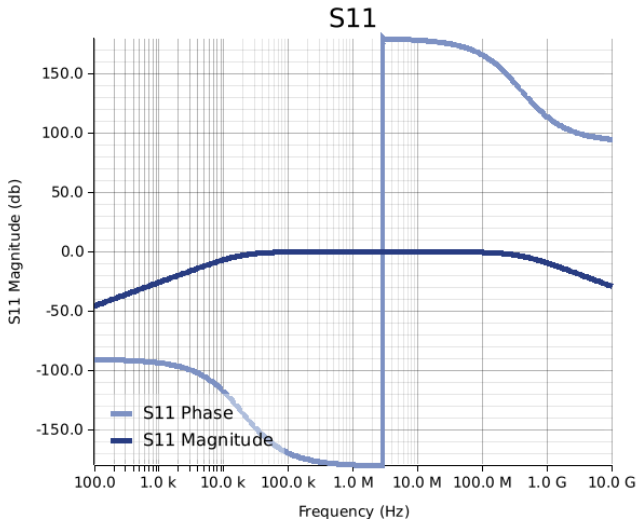
For the complete simulation environment please visit [Y-SIM](#).



R53BI33305000K

Aliases (53BI33305000K)

R53B, Film, Metallized Polypropylene, Automotive Safety, 0.33 uF, 10%, 800 VDC, 350 VAC (X2), 110°C, 15 mm



These are simulations.

This is not a specification!

The responses shown represent the typical response for each part type. Specific responses may vary, depending on manufacturing variation effects of all parameters involved, including the specified tolerances applied to capacitance and unspecified variations of ESR, ESL, and leakage resistance.

The responses shown do not represent a specified or implied maximum capability of the device for all applications.

- The ESR used for ripple "Ripple Current/Voltage vs. Frequency" plots is the ESR at ambient temperature.
- The ESR in the "Temperature Rise vs. Ripple Current" plots is adjusted to each incremental temperature rise before the power and ripple current is calculated.
- The effects shown herein are based on measured data from a multiple part sample of the parts in question.
- Ripple capability of this device will be factored by thermal resistance (Rth) created by circuit traces (addi affects of all parameters involved, including the specified tolerances applied to capacitance and unspecified variations of ESR, ESL, and leakage resistance).
- The peak voltages generated in the "Temperature Rise vs. Combined Ripple Currents" plot are calculated for each frequency and are not combined with voltages generated at any other harmonics.
- Please consult with the catalog or field applications engineer for maximum capability of the device in specific applications.

All product information and data (collectively, the "Information") are subject to change without notice.

KEMET K-SIM is designed to simulate behavior of components with respect to frequency, ambient temperature, and DC bias levels. The responses shown represent the typical response for each part type. Specific responses may vary, depending on manufacturing variation effects of all parameters involved, including the specified tolerances applied to capacitance and unspecified variations of ESR, ESL, and leakage resistance.

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If you have any questions please contact K-SIM.