

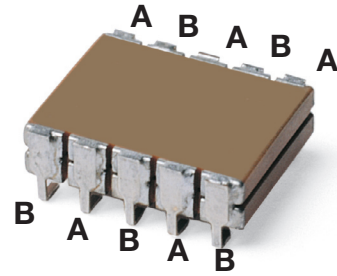
# INTERDIGITATED STACKED CAPACITORS FOR HIGHER FREQUENCY SWITCH MODE POWER SUPPLIES

## APPLICATIONS:

- Output filtering in Switch Mode Power Supplies (SMPS)
- Applications that require higher self-resonant frequency than conventional SMPS capacitors
- Gives less noise on power supply output

## FEATURES:

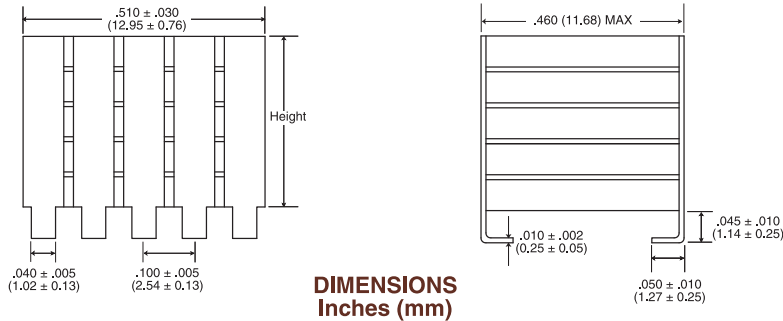
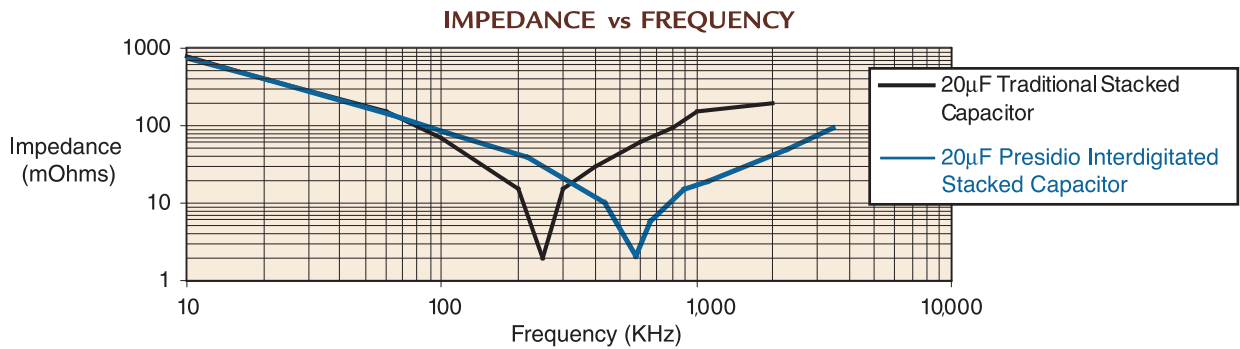
- Lower inductance (ESL)
- Higher self-resonant frequency
- Opposite polarity on each lead gives opposing magnetic fields, resulting in lower ESL while the capacitor is charging
- High capacitance
- Meets standard SMPS capacitor specifications



Interdigitated configuration results in reduced ESL

## CERAMIC TYPE:

- X7R high K dielectric
- Temperature coefficient:  $\pm 15\%$  maximum,  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$



POPULAR PART NUMBERS			
Height inches (mm)	Capacitance	Voltage	Part Number
.200 (5.08)	10 $\mu\text{F}$	50 V	HRSI214X7R106M2J5
.300 (7.62)	15 $\mu\text{F}$	50 V	HRSI314X7R156M2J5
.400 (10.16)	20 $\mu\text{F}$	50 V	HRSI414X7R206M2J5
.500 (12.70)	25 $\mu\text{F}$	50 V	HRSI514X7R256M2J5
.200 (5.08)	15 $\mu\text{F}$	25 V	HRSI214X7R156M1J5
.300 (7.62)	22 $\mu\text{F}$	25 V	HRSI314X7R226M1J5
.400 (10.16)	30 $\mu\text{F}$	25 V	HRSI414X7R306M1J5
.500 (12.70)	39 $\mu\text{F}$	25 V	HRSI514X7R396M1J5
.495 (12.57)	82 $\mu\text{F}$	16 V	HRSI614X7R826MGJ5

**Note:** Other sizes, capacitances, lead frames, dielectrics (BP, BX, BR, BQ), and voltage ratings are available. Consult factory.

