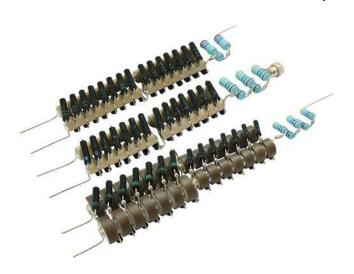


High Voltage Ceramic Capacitor Multiplier Sets With Leads, Class 2 Ceramic



QUICK REFERENCE DATA	
DESCRIPTION	VALUE
Ceramic Class	2
Ceramic Dielectric	R4000 (Y5U)
Туре	RHK
Voltage (V _{DC})	8000, 10 000
Min. Capacitance (pF)	120
Max. Capacitance (pF)	1400
Mounting	Leaded

FEATURES

- High voltage ratings
- · Compact design
- Small sizes
- Many customized solutions available
- Voltage multipliers
- Completely assembled cascades with stacks and diodes

APPLICATIONS

· Electrostatic paint spraying

The major applications are x-ray equipment for:

- · Medical diagnosis
- Dentistry x-ray application
- Industrial x-ray for material control
- Airport security x-ray scanner

CAPACITANCE RANGE

120 pF to 1.4 nF per single disc

CERAMIC DIELECTRIC

R4000 (Y5U)

RATED VOLTAGE

- 8.0 kV_{DC} per single disc
- 10 kV_{DC} per single disc

DESCRIPTION

Voltage multipliers are AC/DC power conversion devices, comprised of diodes and capacitor stacks, that produce a high potential DC voltage from a lower voltage AC source. Multipliers consist of multiple stacks of up to 14 stages. Each stage is comprised of one diode and one capacitor. A high-frequency generator supplies the input AC voltage via a ferrite transformer.

Output DC voltage up to 100 kV or higher can be produced, depending on the number of stages.

The most common type of voltage multiplier is the half-wave multiplier, also called the Villard cascade.

Another multiplier is the full-wave, also called the Delon circuit.

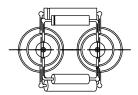
Vishay has the product lines to offer customized voltage multiplier sets:

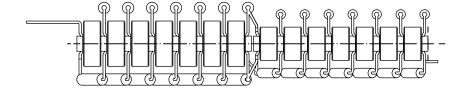
- Build up to 14 stages or more
- · Circuits are completely assembled and soldered with HV diodes / resistors and screwed connections

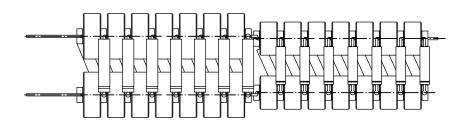
Please contact us. Our design team will work with you to find an individually solution.



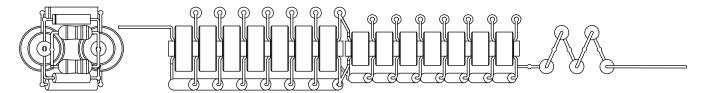
EXAMPLE WITH DIFFERENT SIZES OF DISCS

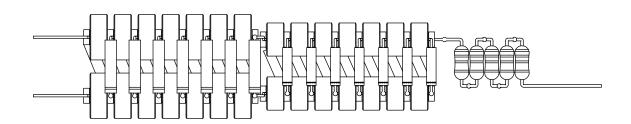






EXAMPLE WITH RESISTORS





Note

For singlestacks see overview: www.vishay.com/capacitors/ceramic/voltage-multipliers/

RELATED DOCUMENTS	
General Information	www.vishay.com/doc?22090



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