

FVE, FSE, AVE, ASE

VITREOUS or SILICONE

40 WATTS thru 1500 WATTS



| TYPE       | WATT | CORE  |       |        | TERMINAL |      |        |
|------------|------|-------|-------|--------|----------|------|--------|
|            |      | A     | B     | C      | D        | E    | F      |
| FSE-40     | 40   | 9/16  | 5/16  | 2      | 1/4      | 9/16 | 8-32   |
| + FSE-50   | 50   | 3/4   | 1/2   | 2      | 1/4      | 9/16 | 8-32   |
| FSE-90     | 90   | 9/16  | 5/16  | 4      | 1/4      | 9/16 | 8-32   |
| + FSE-100  | 100  | 3/4   | 1/2   | 3 1/2  | 1/4      | 9/16 | 8-32   |
| + FSE-110  | 110  | 3/4   | 1/2   | 4      | 1/4      | 9/16 | 8-32   |
| + FSE-120  | 120  | 3/4   | 35/64 | 4 1/2  | 1/4      | 9/16 | 8-32   |
| + FSE-155  | 155  | 1 1/8 | 3/4   | 4 1/4  | 5/16     | 5/8  | 10-32  |
| + FSE-240  | 240  | 1 1/8 | 3/4   | 6 1/2  | 5/16     | 5/8  | 10-32  |
| + FSE-300  | 300  | 1 1/8 | 3/4   | 8 1/2  | 5/16     | 5/8  | 10-32  |
| + FSE-375  | 375  | 1 1/8 | 3/4   | 10 1/2 | 5/16     | 5/8  | 10-32  |
| + FSE-420  | 420  | 1 1/8 | 3/4   | 11 3/4 | 5/16     | 5/8  | 10-32  |
| * FSE-500  | 500  | 1 5/8 | 1 1/8 | 10 1/2 | 1/2      | 5/8  | 1/4-20 |
| * FSE-750  | 750  | 2 1/2 | 1 3/4 | 12     | 1/2      | 5/8  | 1/4-20 |
| * FSE-1000 | 1000 | 2 1/2 | 1 3/4 | 15     | 1/2      | 5/8  | 1/4-20 |
| * FSE-1500 | 1500 | 2 1/2 | 1 3/4 | 20     | 1/2      | 5/8  | 1/4-20 |

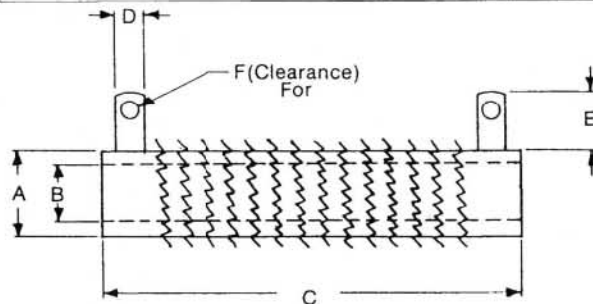
**NOTE 1:** The above chart applies to both vitreous and silicone coated fixed resistors. The "type" nomenclature shown is for silicone coating. When ordering vitreous coating, substitute the letter "V" for the letter "S" in the type.

**NOTE 2:** When ordering adjustable resistors, substitute the letter "A" for the letter "F" in the type.

EXAMPLE: FVE = FIXED VITREOUS    AVE = ADJUSTABLE VITREOUS  
 FSE = FIXED SILICONE    ASE = ADJUSTABLE SILICONE

\* Not available in vitreous enamel

+ Also available with 1/2" wide terminal with clearance hole for 10-32 or 1/4-20 on request



### GENERAL INFORMATION

MEGASTAR-OHM Edgewound Resistors are designed for applications demanding maximum power dissipation in minimum space. Edgewounds are constructed of special alloy resistance wire, crimped, and wound on edge. High quality ceramic cores are used with a coating of either vitreous enamel or silicone to provide heat sink for short term overloads and maximum dissipation.

Units are available with taps at specific locations or as adjustable units.

Units are available in multi-resistor banks for even larger power requirements.

Standard units are supplied without terminal hardware.

### ORDERING INFORMATION

FVE - 40 - 200 - 5%

TYPE & WATTAGE  
 FVE=FIXED VITREOUS  
 AVE=ADJUSTABLE VITREOUS

FSE=FIXED SILICONE  
 ASE=ADJUSTABLE SILICONE

RESISTANCE  
 VALUE

ADD FOR  
 SPECIAL  
 TOLERANCE

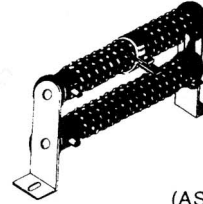
40 WATTS thru 1500 WATTS



(FIXED)



(ADJUSTABLE)



(ASSEMBLIES)

## ENGINEERING DATA AND SPECIFICATIONS

CORE: Ceramic

COATING: Available in vitreous enamel or silicone. (See ordering information.)

TERMINALS: Terminals are suitable for solder or bolt connections.

MOUNTING HARDWARE: Spring grip mounting brackets are available for cores with 1 1/8" and smaller O.D.'s. Horizontal or vertical thru-bolt with mica and ceramic bushings and multiple resistor brackets are available for all sizes. (Consult factory.)

TEMPERATURE COEFFICIENT:  $0 \pm 260 \text{ ppm}/^\circ\text{C}$  is standard for 300 watts. (Consult factory for other values or special TC's)

DIELECTRIC WITHSTANDING VOLTAGE: Measured from terminals to brackets. 1000 VAC.

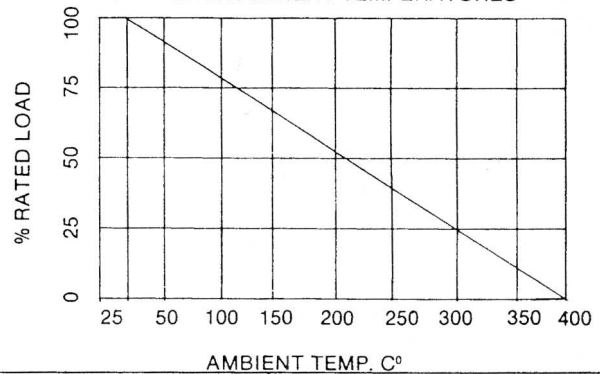
INDUCTANCE: All edgewound resistors are single layer inductively wound.

OVERLOAD: 10 x rated power for 5 seconds.

TOLERANCE:  $\pm 10\%$  is standard for all types. Special tolerances are available. (See ordering information.)

DERATING: Wattage rating is based on 25° C free air rating. For higher ambient temperatures, use derating chart provided.

WATTAGE DERATING CHART  
FOR HIGHER AMBIENT TEMPERATURES



CORE LENGTH TOLERANCES

|                  |            |
|------------------|------------|
| UP TO 4"         | $\pm 1/32$ |
| 4" TO 6 1/2"     | $\pm 1/16$ |
| 6 1/2" TO 8 1/2" | $\pm 3/32$ |
| 8 1/2" TO 12"    | $\pm 1/8$  |
| 12" & OVER       | $\pm 3/16$ |

TERMINAL EDGE DIMENSIONS

| CORE O.D. | TYP. SET-IN |
|-----------|-------------|
| 9/16      | 3/32        |
| 3/4       | 3/32        |
| 1 1/8     | 1/4         |
| 1 5/8     | 1/4         |
| 2 1/2     | 1/2         |