

## ATTENUATOR CHIP 200mW

DATASHEET PART SERIES: SPL-KFAXX.00-XSMT

Sheet 1 of 2

ECO-084318

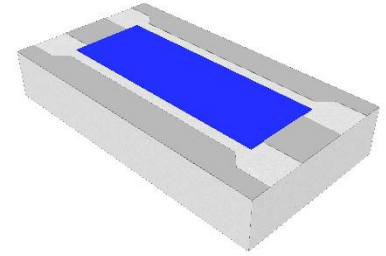
Doc# SPL-KFAXX.00-XSMT-1016935

Revision A

## ORDERING INFORMATION

PART IDENTIFIER: SPL-KFAXX.00-XSMT

→ Frequency Range (5=18-27GHz, 6=27-36GHz).  
 → Attenuation Value.



## SPECIFICATIONS

## 1. ELECTRICAL:

|                               |   |
|-------------------------------|---|
| Nominal Impedance:            | 50 $\Omega$ .   |
| Frequency Range:              | 18 – 27 GHz; 27 – 36 GHz.                             |
| Attenuation Values Available: | 0-10 dB.  |
| *Attenuation Accuracy:        | $\pm 0.75$ dB.  |
| Input Power CW:               | 200 mW Max.   |
| Peak Power:                   | 2 W (based on 10 $\mu$ s pulse width, 1% duty cycle). |
| *VSWR:                        | 1.35:1 Typical.<br>1.50:1 Maximum.                    |

\*Note: Based on EMC test fixture (RO4350B 0.0133" THK CPWG).

## 2. ENVIRONMENTAL:

|                            |                      |
|----------------------------|----------------------|
| Operating Temperature:     | -55°C to +150°C.     |
| Non-operating Temperature: | -65°C to +150°C.     |
| Temperature Coefficient:   | +/-200 PPM / °C max. |

## 3. MARKING:

|               |           |
|---------------|-----------|
| Unit Marking: | dB VALUE. |
|---------------|-----------|

## 4. QUALITY ASSURANCE:

100% Electrical, visual, and mechanical examination for conformance to outline dwg requirements.

Perform inspection in accordance with 824W009 and 824W199.

Test data requirements:

100% test data required for customer.

SPL sim data per 824W199.

Data retention – 7 years standard.

## 5. PACKAGING:

|                     |                |
|---------------------|----------------|
| Standard Packaging: | Tape and Reel. |
|---------------------|----------------|

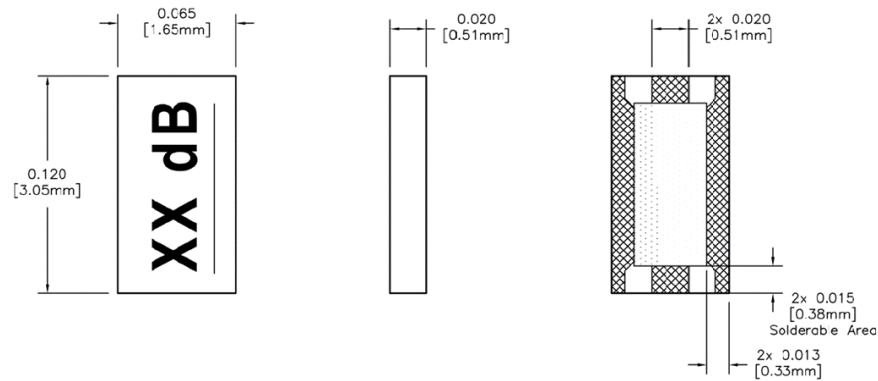
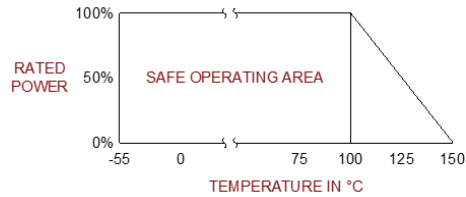
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## 6. MECHANICAL:

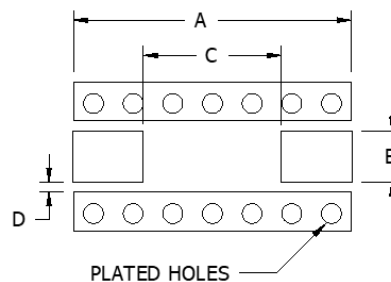
Substrate Material: Alumina.  
 Resistive Film: Thin film.  
 Terminal Material: Thick film, Nickel Barrier, Sn60/Pb40 Solder Plate.  
 Metric Dimensions: Provided for reference only.



Note: Specifications are subject to change.

Unless Otherwise Specified: TOLERANCE: X.XX =  $\pm 0.01$  X.XXX =  $\pm 0.005$ .

## 7. SUGGESTED LAND PATTERN:



| DIMENSION |       |       |       |        |       |      |       |
|-----------|-------|-------|-------|--------|-------|------|-------|
| INCHES    |       |       |       | METRIC |       |      |       |
| A         | B     | C     | D     | A      | B     | C    | D     |
| 0.125     | 0.020 | 0.100 | 0.010 | 3.175  | 0.508 | 2.54 | 0.254 |