Dwg 1016355

ECO-071136

# HIGH FREQUENCY FIBERGLASS FILM CARD

#### DATA SHEET PART SERIE

#### PART SERIES: 73-XXXX-XXX

### **FEATURES**

Thin Film Construction Various Substrate Materials High Frequency Customizeable Ohm Values

### APPLICATIONS

Waveguide Elements Crystal Detector Protection Direction Coupler Termination Mode Suppression in Cavity Filters

## **GENERAL DESCRIPTION**

Smiths Interconnect metal film fiverglass resistance cards are an extremely stable microwave attenuator material. The substrate is a finewoven glass cloth, impregnated with temperature thermosetting resin procured to MIL-I-24768 DES G-11. A resistance film of pure nickel chromium alloy is deposited uniformly on the substate surface. A clear protective coating is then applied over the resistance film. The resistance cards are usable to 18.0 GHz for applications requiring accurate crystal detector protection, mode suppression in cavity filters, waveguide attenuator and termination elements and narrow bank stripline loads and attenuators.

## **ORDERING INFORMATION**

## Part Identifier: 73-XXXX-XXX

└──► (XXX) - OHM/SQ ► (XXXX) - SEE TABLE CHART

Series	Substrate Material	Thickness
73-0160-XXX	Fiberglass	0.010
73-0161-XXX	Fiberglass	0.025
73-0162-XXX	Fiberglass	0.032
73-0163-XXX	Fiberglass	0.062

## **SPECIFICATIONS**

## 1.0 ELECTRICAL

Resist	ance Range:	50 to 400 Ohms/SQ
Resist	ance Tolerance:	± 10%
Dielect	ric Constant:	4.8 Typical @ 1MHz
Nomin	al Power	1 Watt per square inch @ 80°C Ambient Handling Capacity
Dielec	ric Constant:	4.8 Typical @ 1MHz

## 2.0 ENVIRONMENTAL

Operating Temperature:	-55°C to +130°C
Non-operating Temperature:	-55°C to +130°C
Moisture Sensitivity Level:	MSL 1 - Unlimited

#### 3.0 MARKING

Unit Marking:

None

## **4.0 QUALITY ASSURANCE**

100% visual and mechanical inspection

for Conformance to Outline Drawing Requirements.

100% electrical inspection performed for commercial grade products

Form 423F142

## smiths interconnect

# HIGH FREQUENCY FIBERGLASS FILM CARD

73-0162-XXX

73-0163-XXX

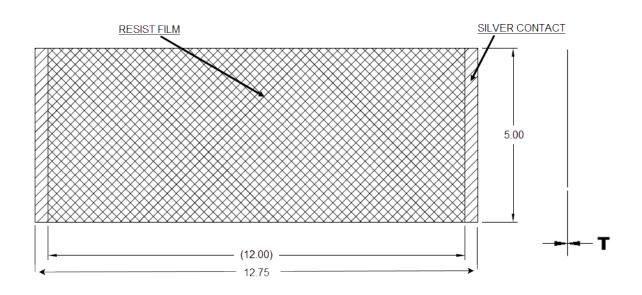
DATA SHEET PAR	RT SERIES: 73-		Γ 2 OF 2 ECO-071136 1016355 Revision A			
5.0 PACKAGING						
Standard Packaging:		Individual Bag Package				
6.0 MECHANICAL						
Substrate Material:		Fiberglass				
Resistive Film:		Nichrome				
Terminal Material:		Silver				
Protective Coating:						
	73-XXXX-XXX	Substrate Material	T = Thickness			
	73-0160-XXX	Fiberglass	0.010 + 0.004/-0.003			
	73-0161-XXX	Fiberglass	0.025 + 0.004/-0.003			

Fiberglass

**Fiberglass** 

0.032 + 0.004/-0.003

0.062 + 0.004/-0.003



Unless Otherwise Specified: TOLERANCE: X.XX = ± 0.01