

POWER SAMPLER CHIP 50 WATT



DATA SHEET

PART SERIES: SXUXXX3F

SHEET 1 OF 3
Dwg SXUXXX3F

EN 14-0172
Revision B

FEATURES

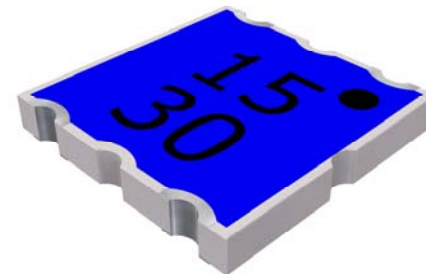
Low Profile Surface Mount Package
High Power
Broadband Response
Simple Implementation
High Reliability

APPLICATIONS

Power Amplifiers
Antenna Feed
Switch Network
Instrumentation
Power Monitors

GENERAL DESCRIPTION

EMC Technology offers high performance power samplers in a low profile surface mount package. Compared to on-board-tap-off circuit, this single chip solution offers high and repeatable performance over a broad frequency range in a small footprint.



ORDERING INFORMATION

Part Identifier:

SXUXXX3F

┌ Sampling Output
└ Thru Attenuation

SPECIFICATIONS

1.0 ELECTRICAL

Nominal Impedance:	50 ohms
Frequency Range:	DC – 4 GHz
Sample Output:	-10 to -30 dB
Sampling Output Tolerance:	±1.5 dB
Thru Attenuation:	0 to 2 dB
Input Power CW:	50 W CW; 2 W CW for versions with thru attenuation.
VSWR:	1.31:1 Typical

2.0 ENVIRONMENTAL

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

3.0 MARKING

Unit Marking: Thru Value, Output Value and Pin 1 Identification

4.0 QUALITY ASSURANCE

Sample Inspect Per MIL-STD-105, Level II, 1.0% AQL.
Visual and Mechanical Inspection for Conformance to Outline Drawing
Measure Attenuation and VSWR
Data Retention - Standard

5.0 PACKAGING

Standard Packaging: Tape and Reel

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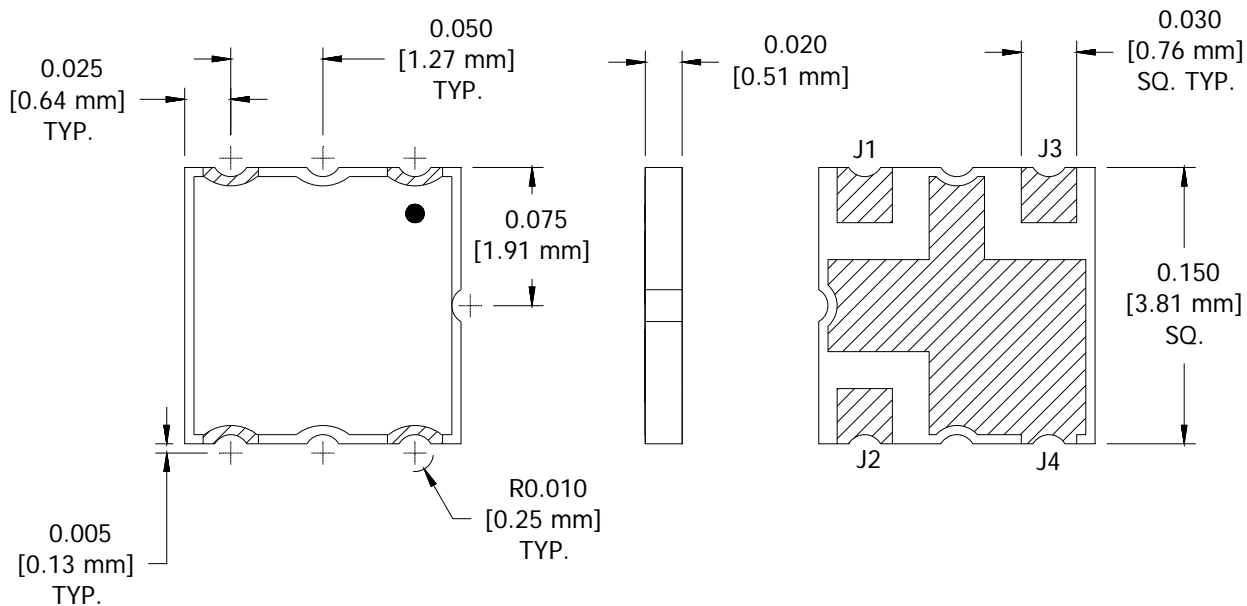
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6.0 MECHANICAL

Substrate Material:	Alumina
Resistive Film:	Thick Film
Terminal Material:	Thick Film, Silver plated
Metric Dimensions:	Provided for reference only

Port	DESCRIPTION
J1	INPUT
J2	THRU ATTENUATION
J3	SAMPLING OUTPUT
J4	GROUND



Unless Otherwise Specified: TOLERANCE: X.XX = ± 0.01 X.XXX = ± 0.005

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7.0 TYPICAL PERFORMANCE AT 25°C

