THIN FILM CHIP ATTENTUATORS

MSAT SERIES

The MSAT series Thin Film chip attenuators provide attenuation accuracy for frequencies through 18GHz. They offer the low noise, stray capacitance and tight tolerance of Thin Film in compact sizes that make them ideal for smaller microwave and strip line applications.

MSAT-1 (FORMERLY 210-0047) SERIES

size Material .100" × .080" (±0.003") × .010" (±.001") QUARTZ GOLD

BOND PADS ATTENUATION RANGES ATTENUATION ACCURACY

-1dB THROUGH -24dB (1/2dB STEPS AVAILABLE)

ATTENUATION ACCURAC FREQUENCY RANGE $\pm 0.2 dB$ DC THROUGH 18GHz

IMPEDANCE

50

VSWR CURRENT NOISE STRAY DISTRIBUTED 1.5:1 MAX. -20dB TYPICAL 0.02pF

CAPACITANCE
POWER RATING

125mW (HIGHER POWER RATINGS AVAILABLE)

OPTIONAL RIBBON WIRE GROUND AVAILABLE



SIZE

.050" × .050" (±.003") 99.6% ALUMINA

MATERIAL BOND PADS

GOLD BOND PADS, WRAPAROUND GROUND

ATTENUATION RANGES
ATTENUATION ACCURACY

-1dB THROUGH -24dB

FREQUENCY RANGE

±0.2dB

IMPEDANCE

DC THROUGH 18GHz

VSWR

50

CURRENT NOISE

1.5:1 MAX.

STRAY DISTRIBUTED

-20dB TYPICAL 0.08pF

CAPACITANCE

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POWER RATING

250mW

MSAT-3 SERIES FULLY SURFACE MOUNTABLE

MATERIAL

.050" × .050" (±.003")

BOND PADS

99.6% ALUMINA

ATTENUATION RANGES
ATTENUATION ACCURACY

GOLD BOND PADS, FULLY SURFACE MOUNTABLE -1dB THROUGH -24dB

ATTENUATION ACCURA

 \pm 0.2dB

DC THROUGH 18GHz

IMPEDANCE VSWR

20

CURRENT NOISE

1.5:1 MAX. -20db typical

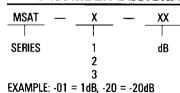
STRAY DISTRIBUTED CAPACITANCE

0.08pF

POWER RATING

250mW

PART NUMBER DESIGNATION



CONSULT FACTORY FOR OTHER CONFIGURATIONS



MSAT-1

MSAT-2

MSAT-3

GROUND

OUTPUT

VV-SSS OUTPUT

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