ATTENUATOR EXTENDED SHIFT TEMPERATURE VARIABLE



DATA SHEET

PART SERIES: ETVAXX00NXXS

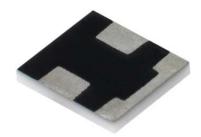
SHEET 1 OF 3 Dwg 1011855 EN 16-0791 Revision F

FEATURES

Temperature Variable Compact Package Wideband Performance Passive Gain Compensation Rugged Construction MIL-PRF-3933

APPLICATIONS

Power Amplifiers Instrumentation Mobile Networks Point-to-Point Radios Satellite Communications Military Radios Up/Down Converters



GENERAL DESCRIPTION

EMC Technology is the leading authority in temperature variable attenuators. Thermopad[®] temperature variable attenuators have been a highly reliable passive solution for over temperature gain compensation for more than 20 years. All Thermopad[®] products can be qualified for high-reliability and space applications.

ORDERING INFORMATION

Part Identifier: ETVAXX00NXXS

TEMPERATURE COEFFICIENT OF ATTENUATION 1 X 103 DB/DB/°C.

- ATTENUATION SHIFT <u>N</u>EGATIVE.

------ DB VALUE

SPECIFICATIONS

1.0ELECTRICAL

Nominal Impedance:	50 ohms					
Frequency Range:	DC 3GHz					
Attenuation Values Available:	3,4,5 and 6 dB in 1 dB increments					
Attenuation Accuracy:	@ 25ºC: ± 0.5 dB @ 1GHz					
VSWR:	1.30:1 Max @ 1GHz					
Input Power	2 Watts					
Temperature Coefficient of Attenuation	racy: (@ 25°C: ± 0.5 dB @ 1GHz 1.30:1 Max @ 1GHz 2 Watts fficient of Attenuation:-0.010, -0.011, -0.012, -0.013, -0.014, -0.015, and -0.016 dB/dB/°C					
Temperature Coefficient Tolerance:	± 0.002 dB/dB/ºC					

2.0 ENVIRONMENTAL

Operating Temperature: -55°C to +150°C

3.0MARKING

Unit Marking:

dB value (XX), direction of shift (N) and TCA shift (XX).

4.0QUALITY ASSURANCE

Sample Inspect Per ANSI/ASQC Z1.4 General Inspection, Level II, AQL=1.0.

Visual and Mechanical Examination for Conformance to Outline Drawing Requirements

Sample Inspection (Destructive Testing).

Select three (3) units from lot and measure DCA every 20°C over the temperature range of

-55°C to +125°C; Calculate using linear regression, the slope of the curve.

ATTENUATOR EXTENDED SHIFT TEMPERATURE VARIABLE



DATA SHEET

PART SERIES: ETVAXX00NXXS

HEET 2 OF 3 Dwg 1011855 EN 16-0791 Revision F

Calculate TCA using the following formula:

 $TCA = \frac{Slope}{Attenuation @ 25^{\circ}C}$

Inspection in accordance with 824W170 and 824F036 for commercial grade product.

Test Data Requirements:

No Data Required for Customer

Data Retention – 24 Months

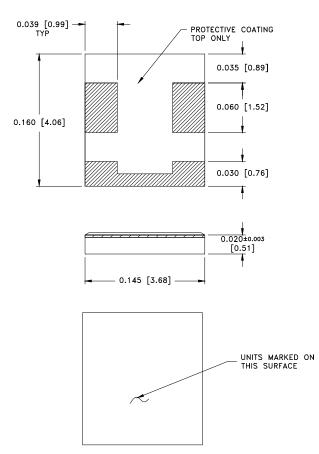
5.0 PACKAGING

Standard:

Tape and Reel

6.0 MECHANICAL

Substrate Material: Terminal Material: Workmanship Resistive Element: Metric Dimensions: Alumina, MIL-I-10. Thick Film, Nickel Barrier, Solder Plated PER MIL-PRF-55342 Thick Film. Provided for reference only



Unless Otherwise Specified: TOLERANCE: $X.XX = \pm 0.XX$ $X.XXX = \pm 0.005$

ATTENUATOR EXTENDED SHIFT TEMPERATURE VARIABLE



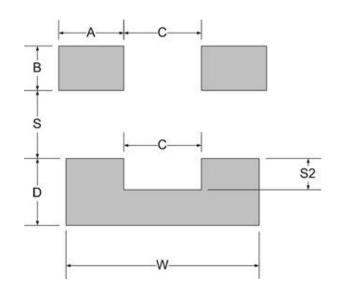
DATA SHEET

PART SERIES: ETVAXX00NXXS

Dwg 1011855

EN 16-0791 Revision F

7.0 FOOTPRINT



		Inches						mm						
Part Number	Α	B	С	D	S	S2	W	Α	B	С	D	S	S2	W
ETVAXX00NXXF	0.039	0.060	0.067	0.030	0.035	0.015	0.145	0.99	1.52	1.70	.76	.89	.38	3.68