

Multilayer Phase Shifters(Delay Lines)

For DCS/PCS

DEA Series

Type: **DEA101910DT-6004A1 (1.0×0.5×0.52mm max.)**
 DEA101910DT-6017A1 (1.0×0.5×0.52mm max.)
 DEA101910DT-6005A2 (1.0×0.5×0.52mm max.)
 DEA101910DT-6016A1 (1.0×0.5×0.52mm max.)
 DEA101910DT-6006B1 (1.0×0.5×0.52mm max.)

Issue date: July 2011

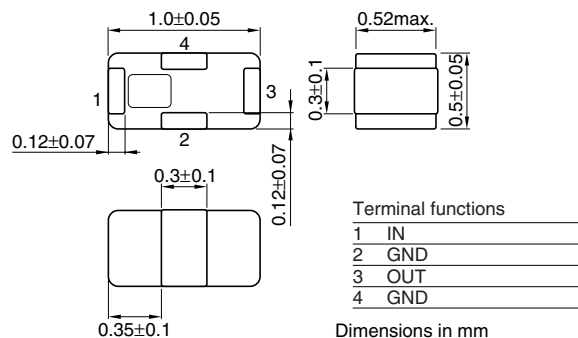
- All specifications are subject to change without notice.
 - Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.
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Multilayer Chip Phase Shifters(Delay Lines) For DCS/PCS

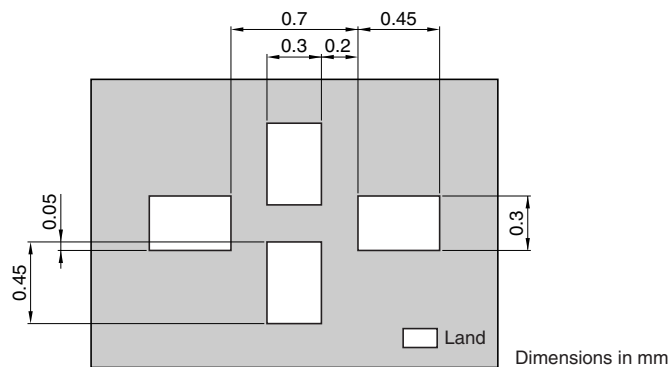
Conformity to RoHS Directive

DEA Series DEA101910DT-6004A1

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERNS



ELECTRICAL CHARACTERISTICS

Insertion loss	[1710 to 1910MHz]	0.4dB min.
Phase shift	[1710 to 1910MHz]	-30±10deg.
VSWR	[1710 to 1910MHz]	1.5 max.
Temperature range	Operating	-40 to +80°C
	Storage	-40 to +85°C

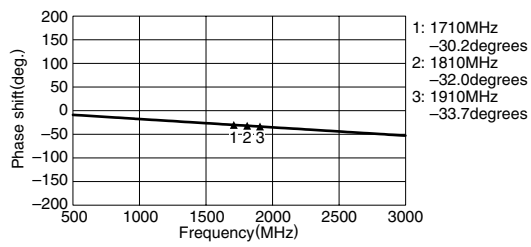
• Ta=25±5°C

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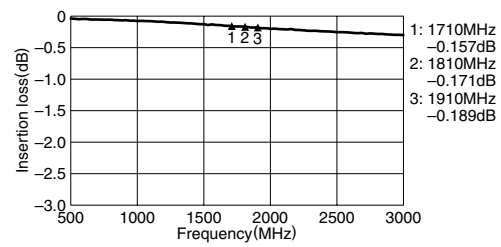
• All specifications are subject to change without notice.

FREQUENCY CHARACTERISTICS

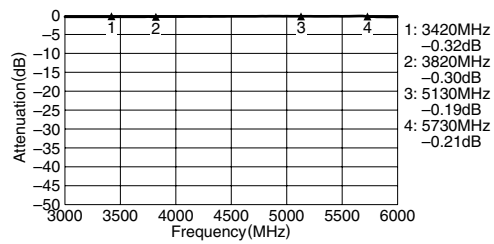
PHASE SHIFT



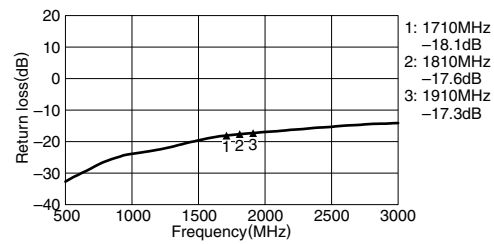
INSERTION LOSS



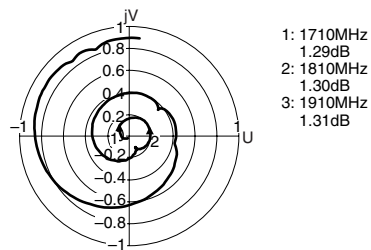
ATTENUATION



RETURN LOSS



VSWR

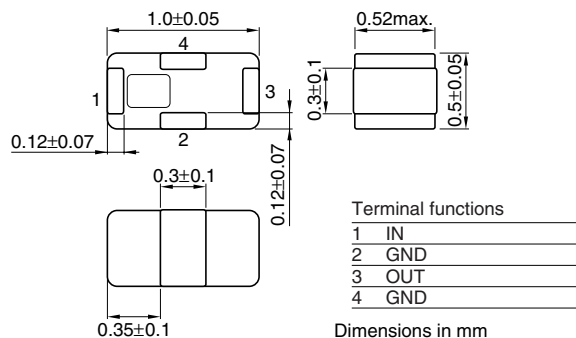


Multilayer Chip Phase Shifters(Delay Lines) For DCS/PCS

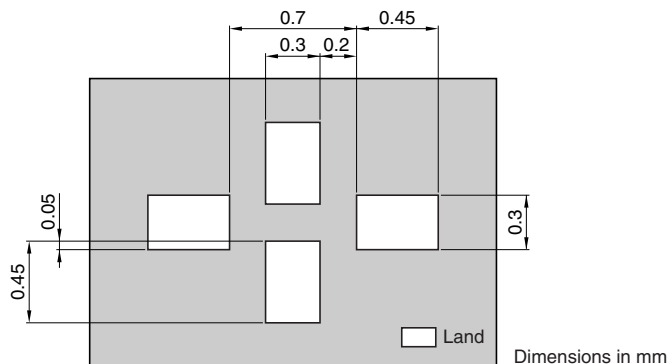
Conformity to RoHS Directive

DEA Series DEA101910DT-6017A1

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERNS



ELECTRICAL CHARACTERISTICS

Insertion loss	[1710 to 1910MHz]	0.16dB typ.
Phase shift	[1710 to 1910MHz]	-46.93deg. typ.
VSWR	[1710 to 1910MHz]	1.09 typ.
Temperature range	Operating	-40 to +80°C
	Storage	-40 to +85°C

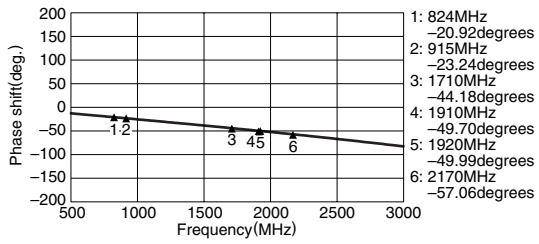
• Ta=25±5°C

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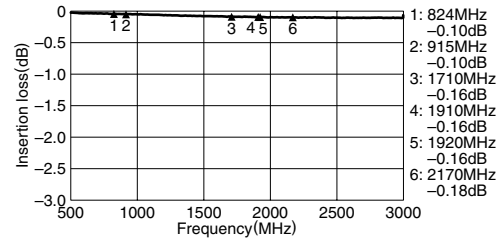
• All specifications are subject to change without notice.

FREQUENCY CHARACTERISTICS

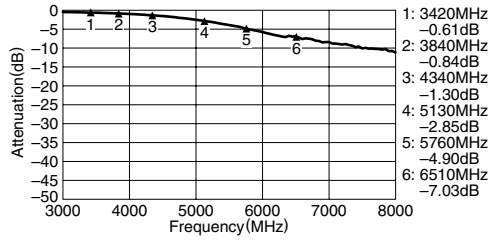
PHASE SHIFT



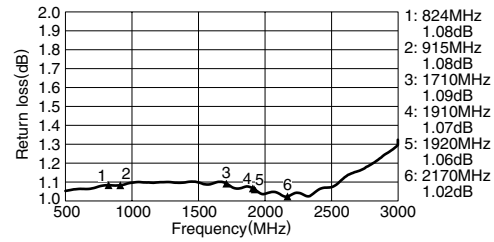
INSERTION LOSS



ATTENUATION



RETURN LOSS

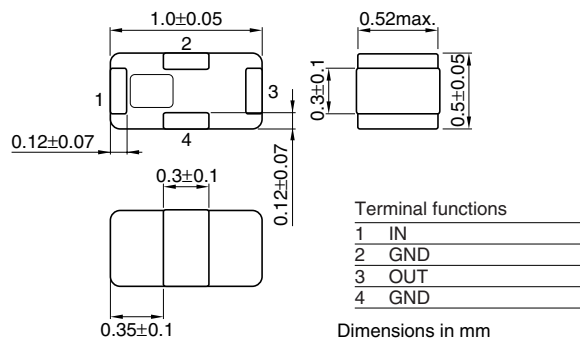


Multilayer Chip Phase Shifters(Delay Lines) For DCS/PCS

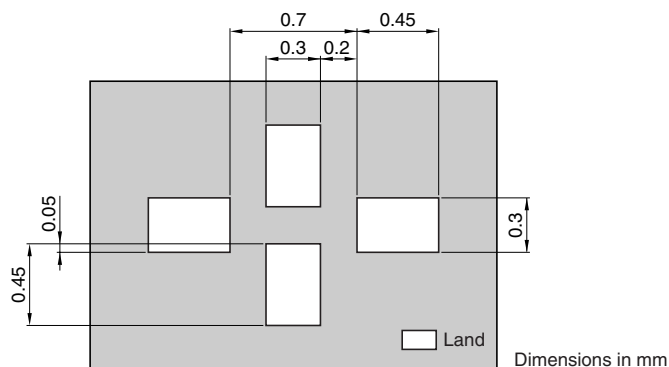
Conformity to RoHS Directive

DEA Series DEA101910DT-6005A2

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERNS



ELECTRICAL CHARACTERISTICS

Insertion loss	[1710 to 1910MHz]	0.4dB min.
Phase shift	[1710 to 1910MHz]	-60±10deg.
VSWR	[1710 to 1910MHz]	1.3 max.
Temperature range	Operating	-40 to +80°C
	Storage	-40 to +85°C

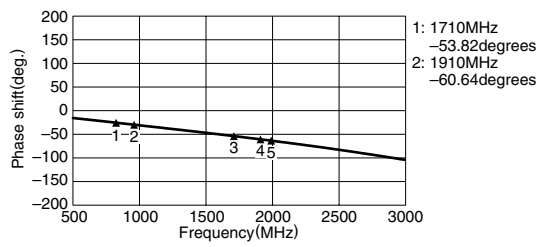
• Ta=25±5°C

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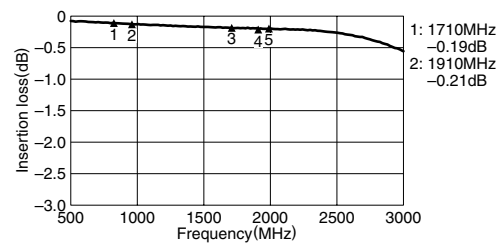
• All specifications are subject to change without notice.

FREQUENCY CHARACTERISTICS

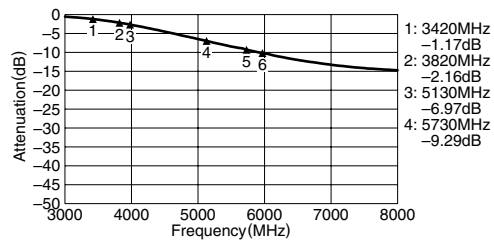
PHASE SHIFT



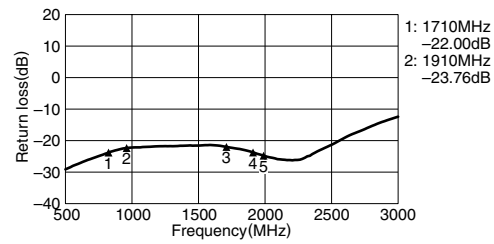
INSERTION LOSS



ATTENUATION



RETURN LOSS

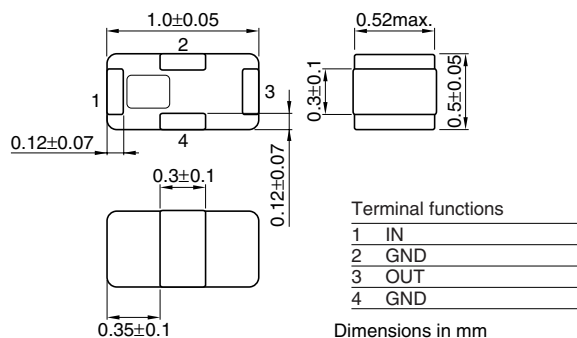


Multilayer Chip Phase Shifters(Delay Lines) For DCS/PCS

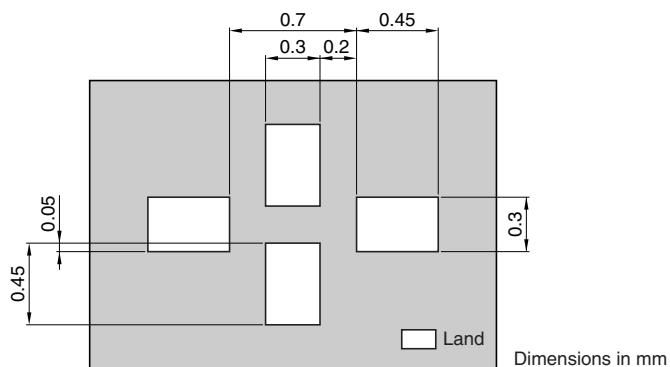
Conformity to RoHS Directive

DEA Series DEA101910DT-6016A1

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERNS



ELECTRICAL CHARACTERISTICS

Insertion loss	[1710 to 1910MHz]	0.4dB min.
Phase shift	[1710 to 1910MHz]	$-75 \pm 10 \text{ deg.}$
VSWR	[1710 to 1910MHz]	1.7 max.
Temperature range	Operating	-40 to $+80^\circ\text{C}$
	Storage	-40 to $+85^\circ\text{C}$

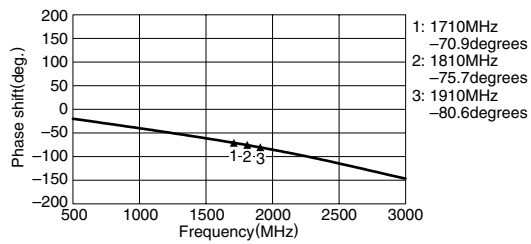
• $T_a = 25 \pm 5^\circ\text{C}$

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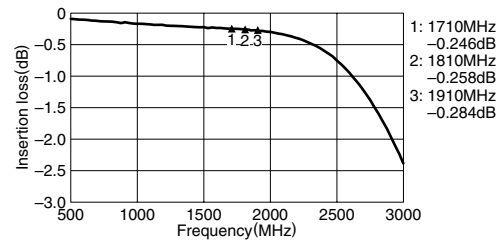
• All specifications are subject to change without notice.

FREQUENCY CHARACTERISTICS

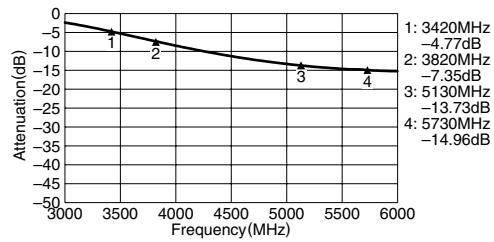
PHASE SHIFT



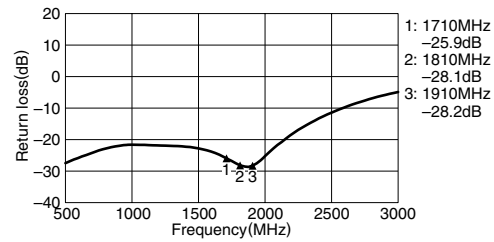
INSERTION LOSS



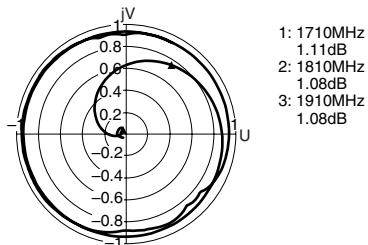
ATTENUATION



RETURN LOSS



VSWR

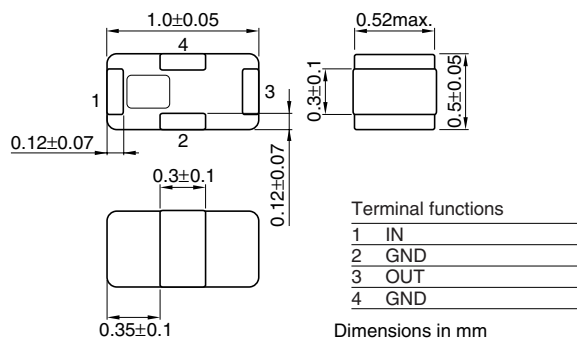


Multilayer Chip Phase Shifters(Delay Lines) For DCS/PCS

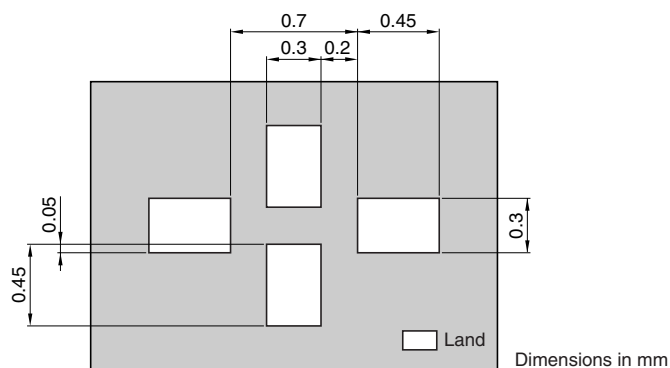
Conformity to RoHS Directive

DEA Series DEA101910DT-6006B1

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERNS



ELECTRICAL CHARACTERISTICS

Insertion loss	[1710 to 1910MHz]	0.75dB max.
Phase shift	[1710 to 1910MHz]	-90±15deg.
VSWR	[1710 to 1910MHz]	1.9 max.
Temperature range	Operating	-40 to +80°C
	Storage	-40 to +85°C

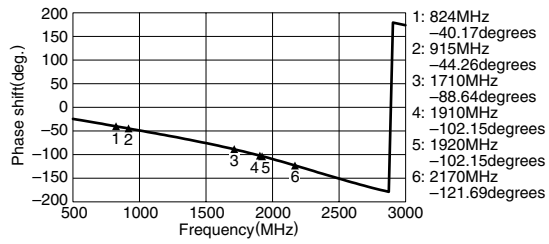
• Ta=25±5°C

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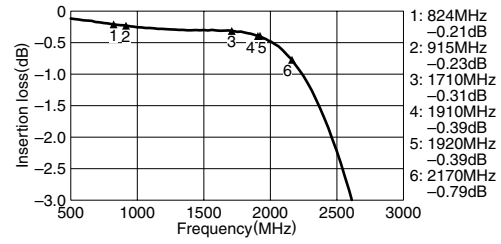
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FREQUENCY CHARACTERISTICS

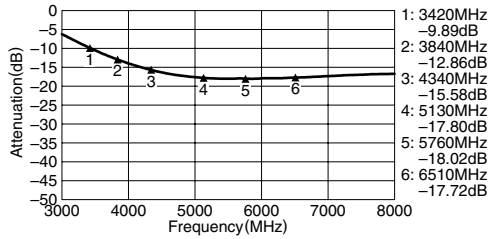
PHASE SHIFT



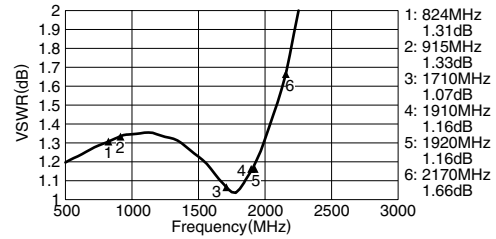
INSERTION LOSS



ATTENUATION



VSWR



Mouser Electronics

Authorized Distributor

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TDK:

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