

PRODUCT CHANGE NOTICE

PCN Form (D4-E000-73)

PCN#13-012NOTIFICATION DATE: **December 31, 2013****MODEL(S) AFFECTED:****Model Series: TC, TCM, TCP, TCD, TCH**See specific model datasheets for links at www.minicircuits.com

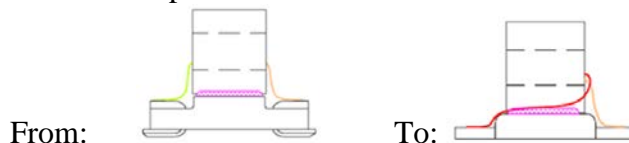
(NOTE: TC models with "X" suffix indicating "TOPHAT" are NOT affected)

EXTENT OF CHANGE:

- Implementation of Phosphor Bronze as termination based metal in addition to Alloy 42
- Transition of additional models to alternate, qualified header per PCN11-002-1 *

EFFECT OF CHANGE:

- No change in FIT or FUNCTION.
- Modification of Material Declaration.
- Identical footprint, solderability and electrical performance.
- Minor FORM change of appearance and reduction in overall height for models not previously transitioned per PCN11-002-1

**REASON FOR CHANGE:**

Cost containment and enhanced availability of supply

EFFECTIVE DATE OF CHANGE:

Either or both versions to be supplied based on stock conditions

ATTACHMENTS:

- PCN11-002-1 (Reference)
- Sample Performance Graphs

QUESTIONS?

PLEASE CONTACT US.

Revised – June 30, 2014 (C)

ISO 9001 CERTIFIED

PRODUCT CHANGE NOTICE PCN Form (D4-E000-73)

Attachment to PCN#13-012



PRODUCT CHANGE NOTICE PCN Form (D4-E000-73)

PCN#11-002-1

NOTIFICATION DATE: January 28, 2011

MODEL(S) AFFECTED:

TC-series

EXTENT OF CHANGE:

Change of appearance of plastic substrate

EFFECT OF CHANGE:

- No change in Fit, Form or Function
- Slight change in appearance of the substrate

REASON FOR CHANGE:

Availability of alternate substrate from different, qualified supplier

EFFECTIVE DATE OF CHANGE:

Immediate

DELIVERY:

- Both versions may be shipped during transition period

ATTACHMENTS:

Drawing

QUESTIONS?

PLEASE CONTACT US.

Revised – February, 19, 2014 (G)

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PCN11-002-1_Web_Rev 021914.doc Rev.: OR M87093 (05/21/03) File: PCN11-002-1_Web_Rev 021914.doc
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Refer to Procedure: D3-E040

PRODUCT CHANGE NOTICE

PCN Form (D4-E000-73)

Attachment to PCN#13-012

PRODUCT CHANGE NOTICE

PCN Form (D4-E000-73)

Attachment to: **PCN#11-002-1**

Outline Dimensions

AT224-1A

PCB Land Pattern

Suggested Layout,
Tolerance to be within ±.00

CASE #	A	B	C	D	E	F	G	H	J	K	WT. GRAMS
AT224-1A	.150 (3.81)	.150 (3.81)	.160 (4.06)	.050 (1.27)	.040 (1.02)	.025 (0.64)	.028 (0.71)	.065 (1.65)	.190 (4.83)	.030 (0.76)	.15

Notes:

1. Case material: Plastic.
2. Termination finish:
For RoHS Case Styles: Tin plate over Nickel plate. All models, (+) suffix.
3. Lead #1 identifier shall be located in the cross-hatched area shown.
Identifier may be either a molded or marked feature.

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PRODUCT CHANGE NOTICE

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Attachment to: **PCN#11-002-1**

Outline Dimensions

PCB Land Pattern

Suggested Layout,
Tolerance to be within ±.002

CASE #	A	B	C	D	E	F	G	H	J	K	WT. GRAM
DB714	.160 (4.06)	.150 (3.81)	.160 (4.06)	.050 (1.27)	.040 (1.02)	.025 (0.64)	.028 (0.71)	.065 (1.65)	.190 (4.83)	.030 (0.76)	.15

Dimensions are in inches (mm). Tolerances: 2 Pl. ± .01; 3Pl. ± .005

Notes:

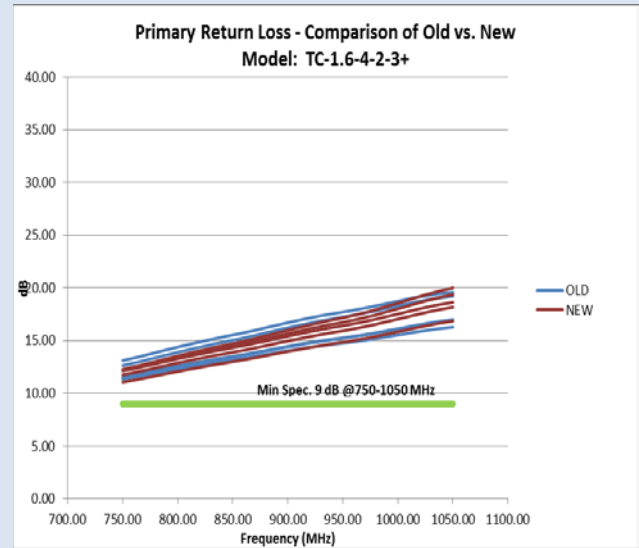
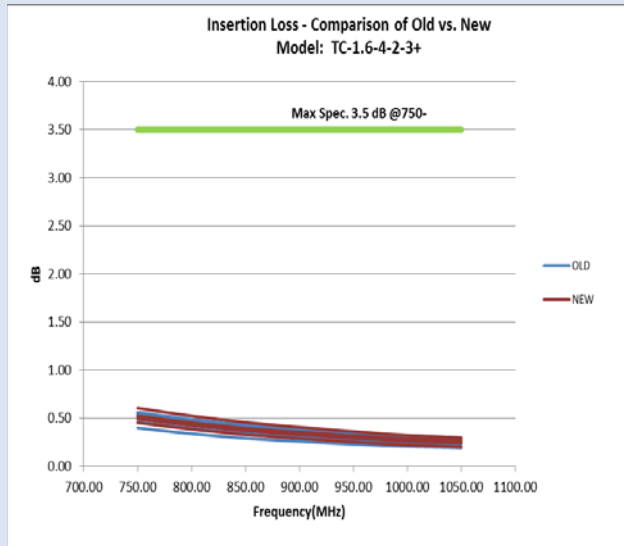
1. Case material: Plastic.
2. Termination finish:
 For RoHS Case Styles: Tin plate over Nickel plate. All models, (+) suffix.
 For RoHS-5 Case Styles: Tin-Lead plate. All models, no (+) suffix.
3. Lead #1 identifier shall be located in the cross-hatched area shown.
 Identifier may be either a molded or marked feature.

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TC-1.6-4-2-3+

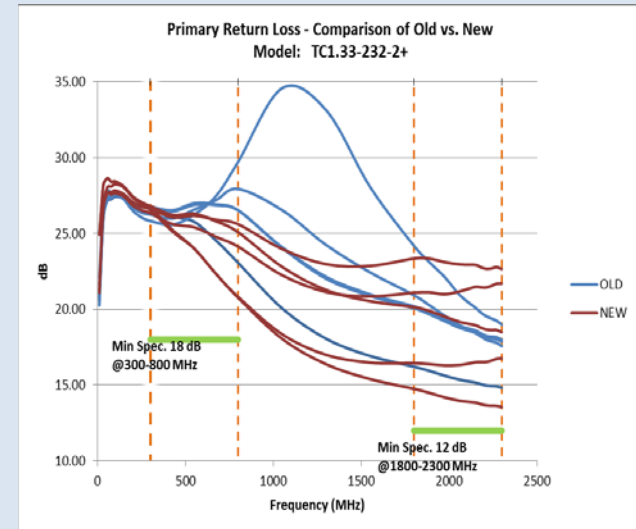
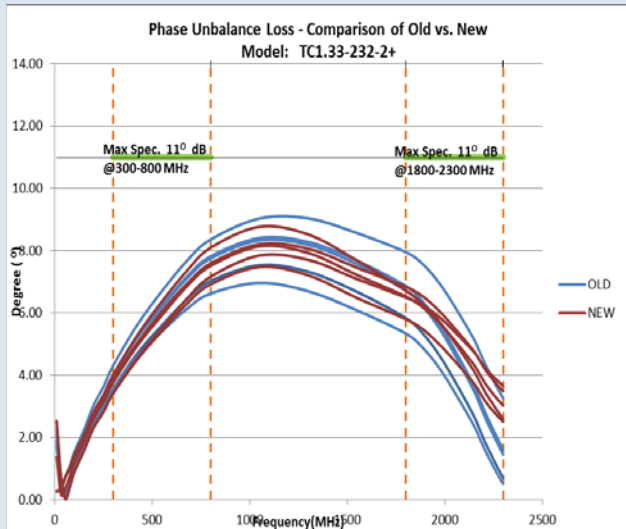
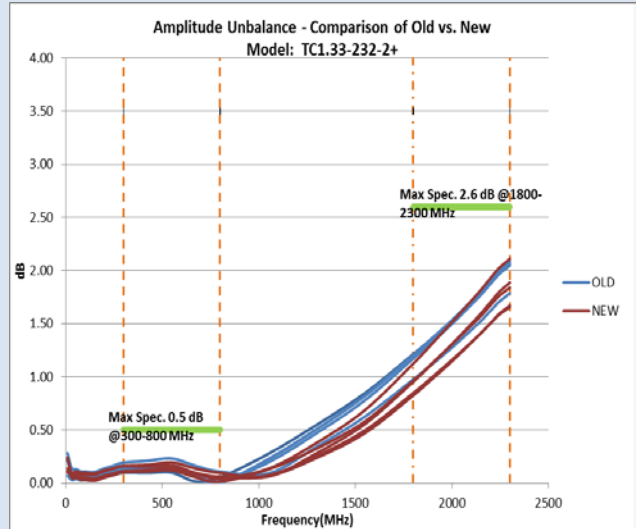
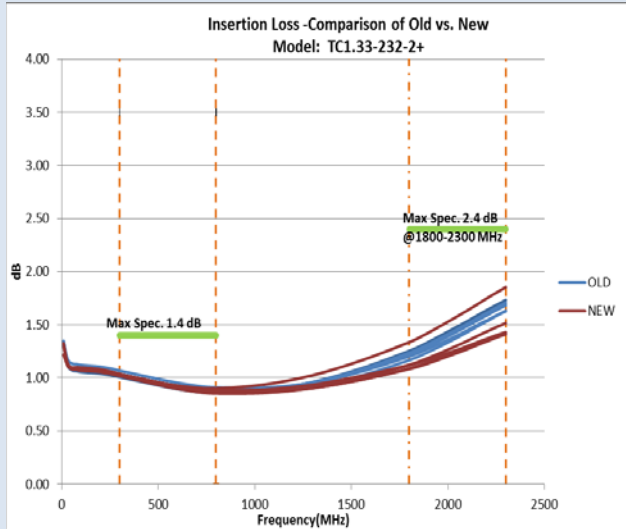


PRODUCT CHANGE NOTICE

PCN Form (D4-E000-73)

Attachment to PCN#13-012

TC1.33-232-2+

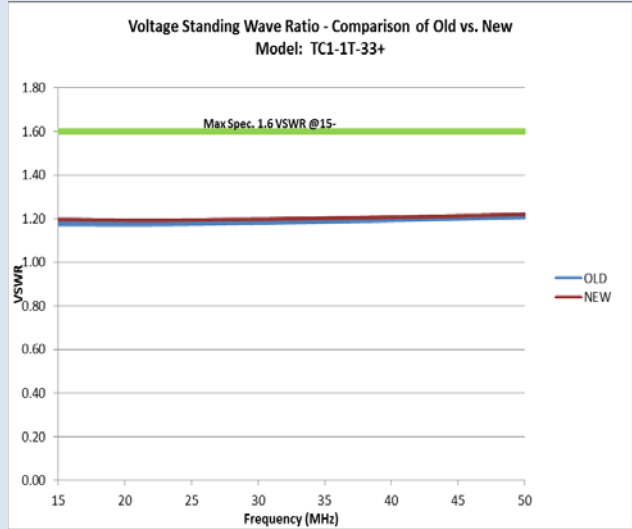
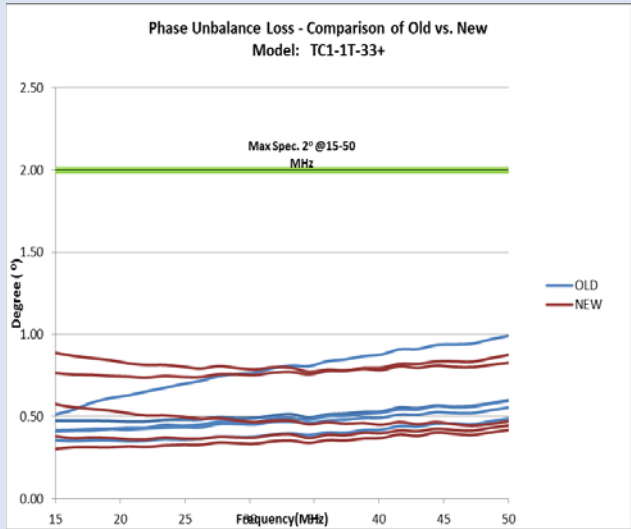
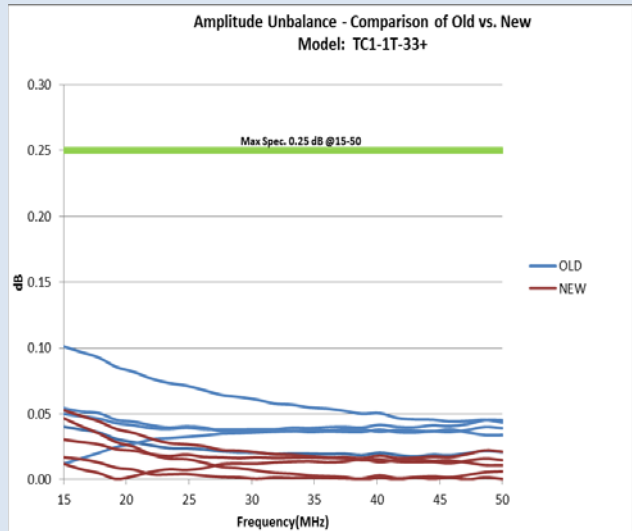
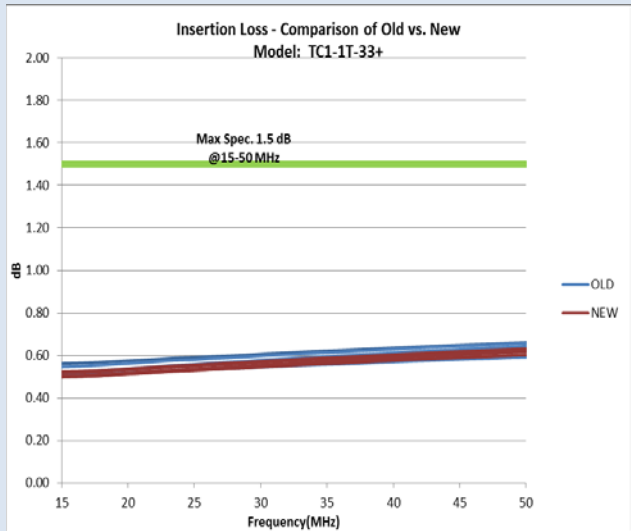


PRODUCT CHANGE NOTICE

PCN Form (D4-E000-73)

Attachment to PCN#13-012

TC1-1T-33+

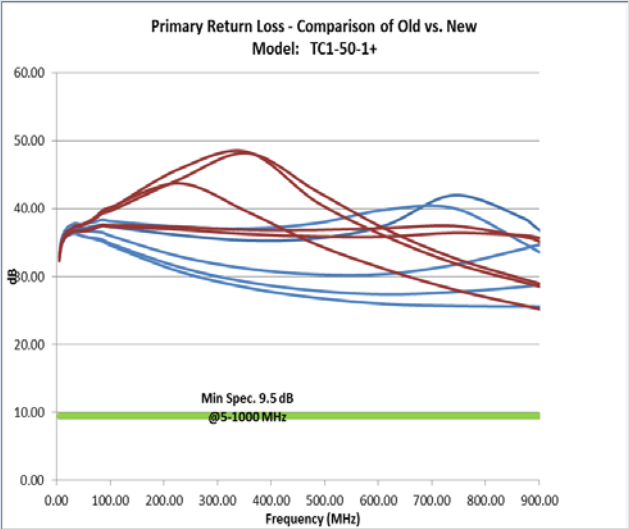
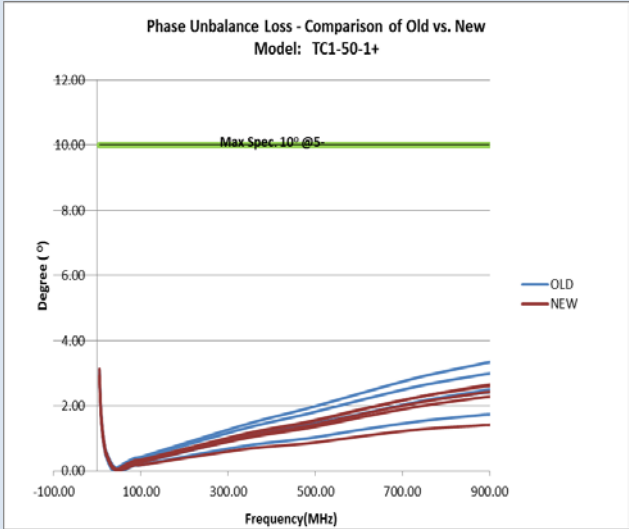
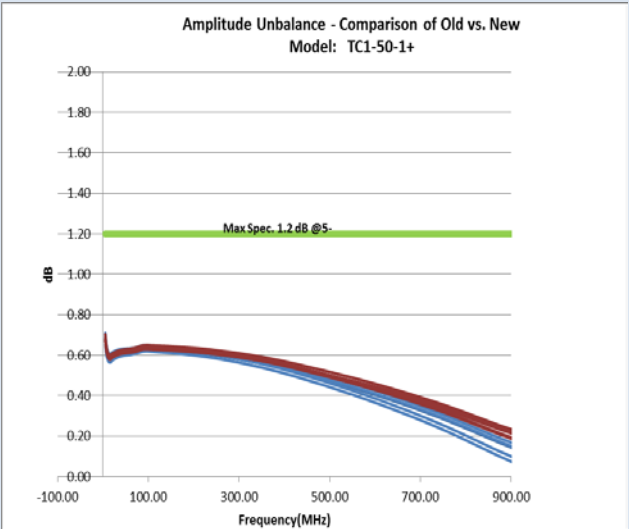
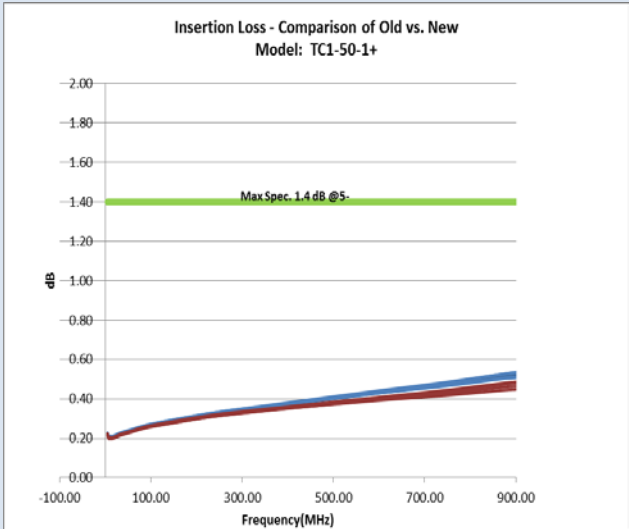


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PCN Form (D4-E000-73)

Attachment to PCN#13-012

TC1-50-1+

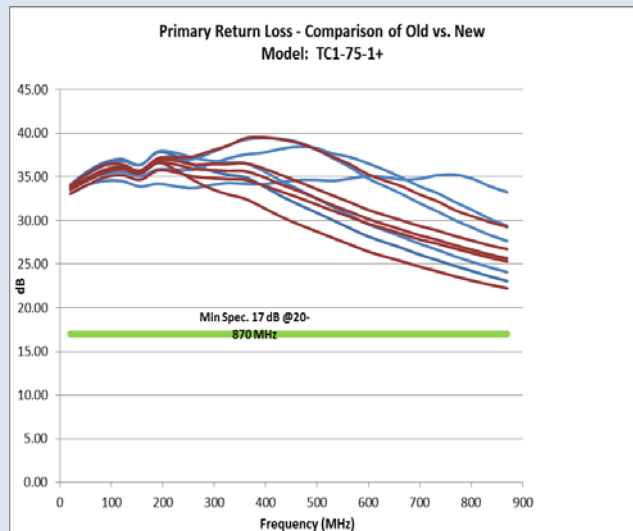
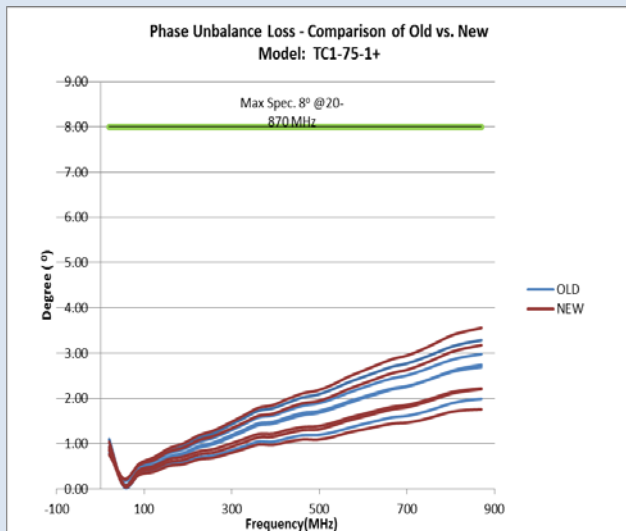
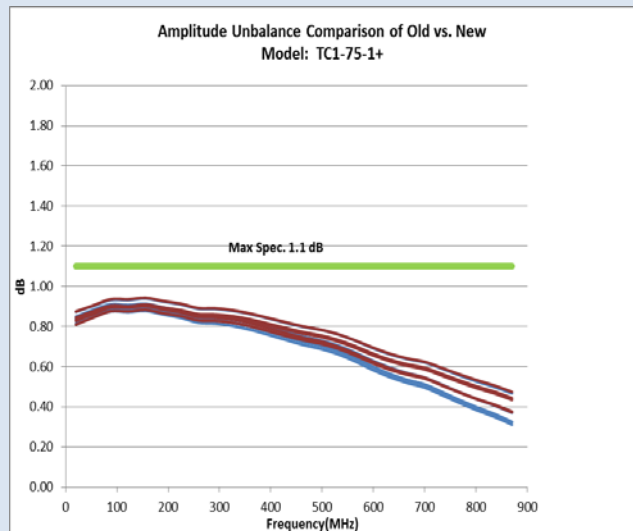
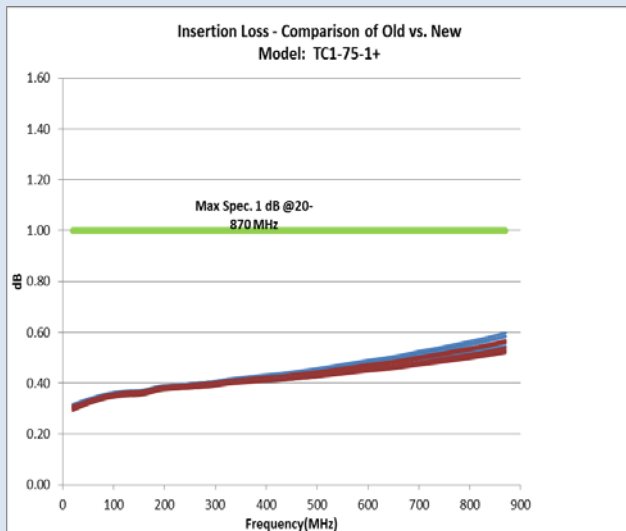


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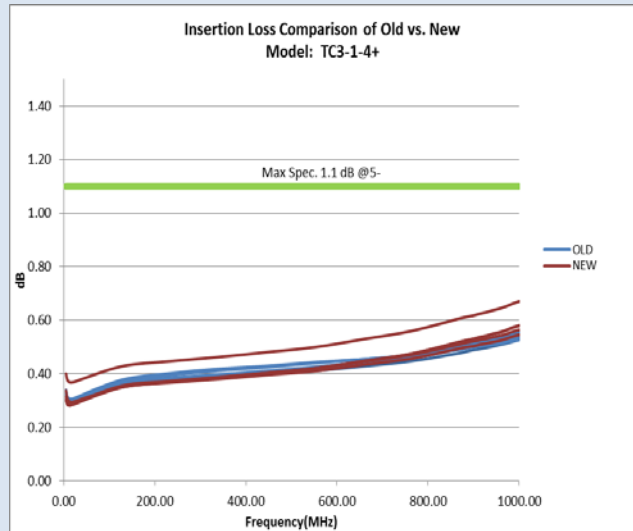
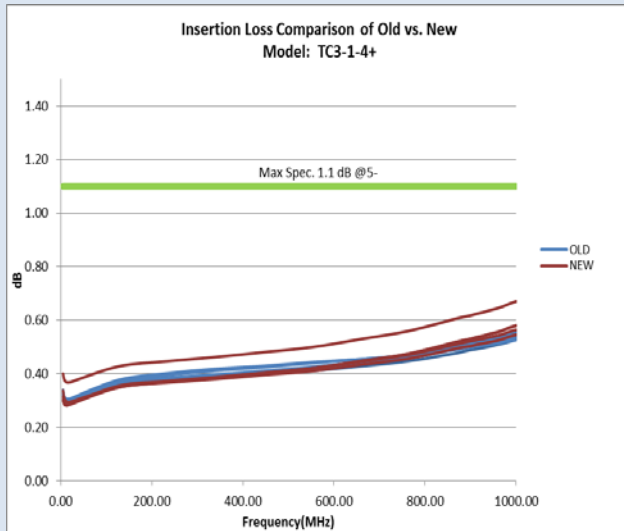
TC1-75-1+



PRODUCT CHANGE NOTICE PCN Form (D4-E000-73)

Attachment to PCN#13-012

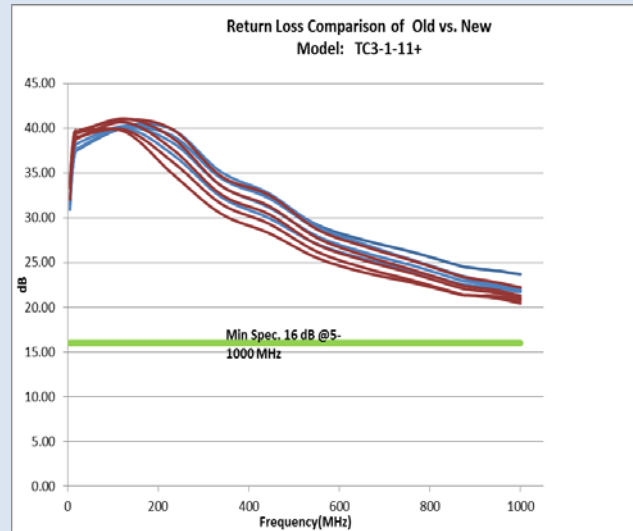
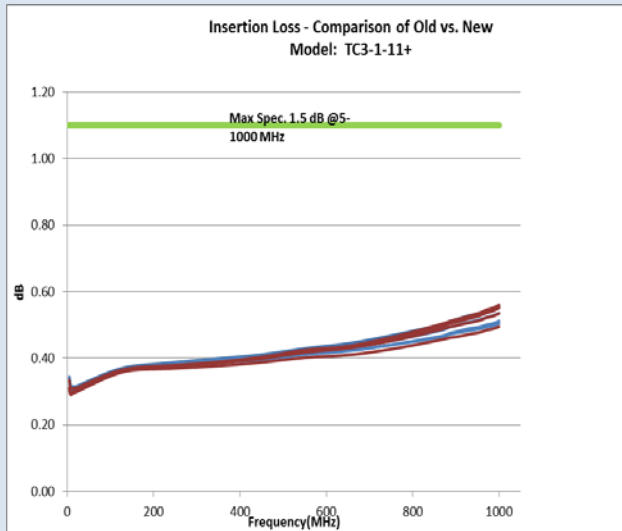
TC3-1-4+



PRODUCT CHANGE NOTICE PCN Form (D4-E000-73)

Attachment to PCN#13-012

TC3-1-11+

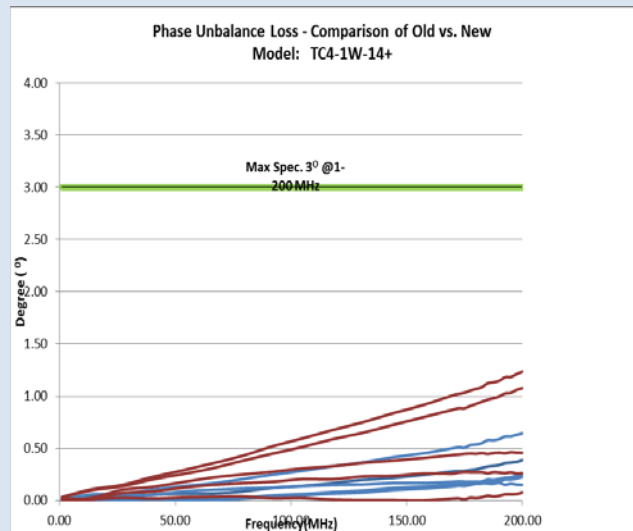
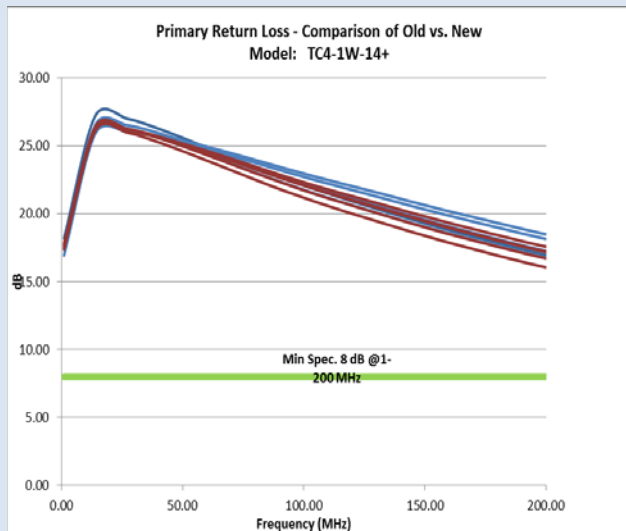
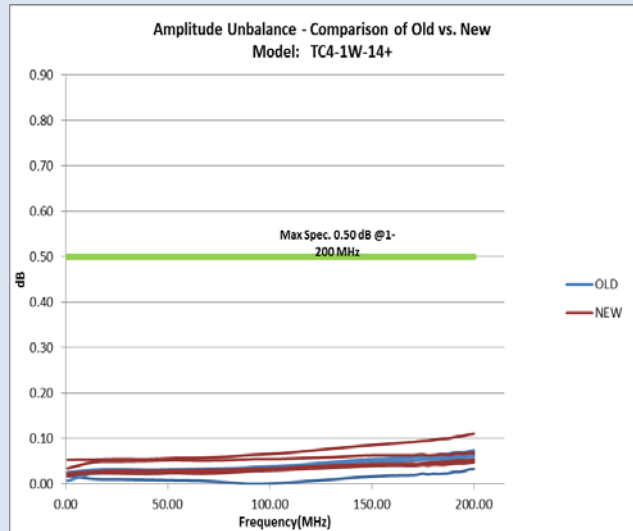
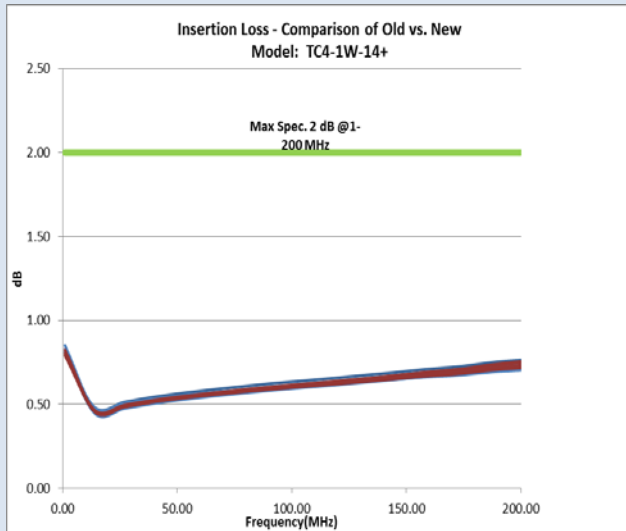


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Attachment to PCN#13-012

TC4-1W-14+

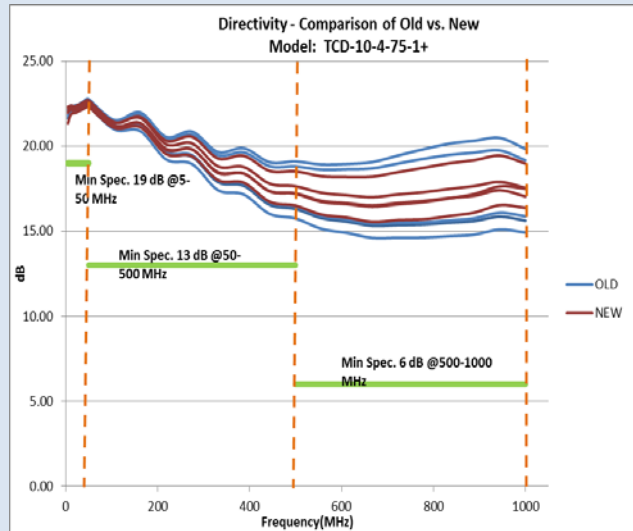
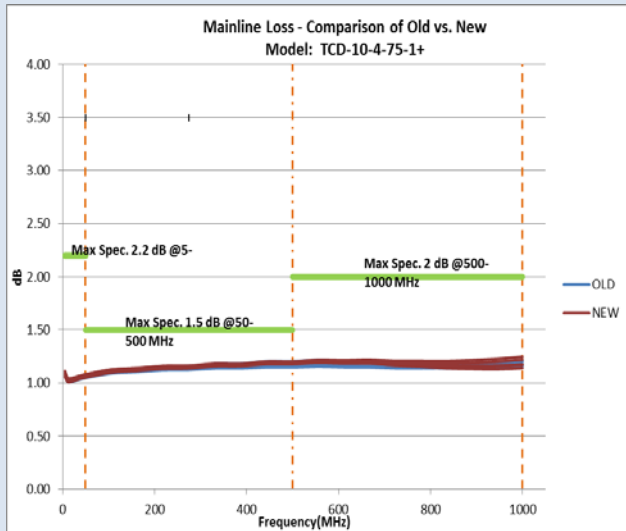


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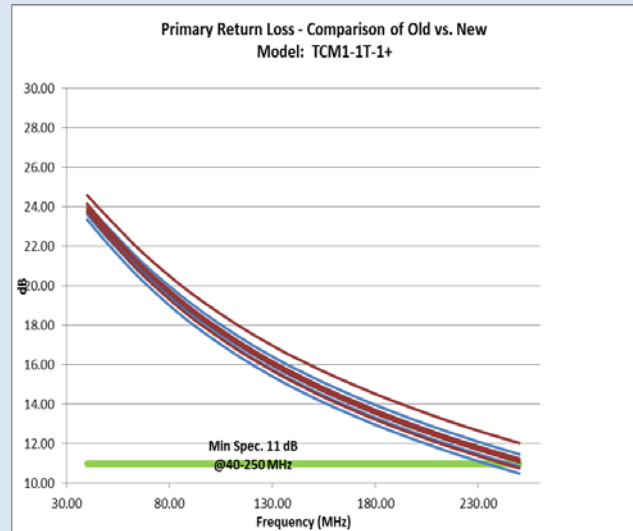
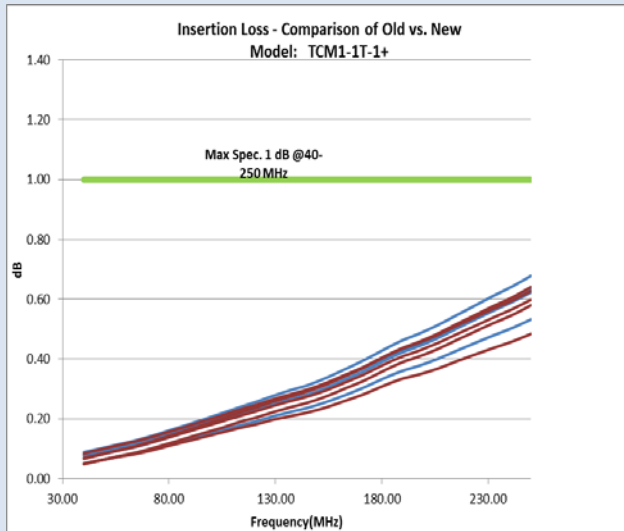
TCD-10-4-75-1+



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Attachment to PCN#13-012

TCM1-1T-1+



PRODUCT CHANGE NOTICE

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TCP-2-22-75-3+

