



Anaren Launches New Line of Xinger(R)-III Brand, Surface-Mount Doherty Combiners for Wireless Amplifiers

New Line of Components Save Valuable Board Space and Offer Performance Advantages Over Traditional Doherty Combiners Printed on PCB

SYRACUSE, N.Y., April 22, 2011 (GLOBE NEWSWIRE) -- [Anaren, Inc.](#) (Nasdaq:ANEN) announced today that it has launched a new line of Xinger-III brand Doherty combiners that offer considerable size and performance advantages over traditional Doherty solutions — which are printed directly onto printed circuit board (PCB). Available in models covering 600MHz-2700MHz — and measuring only 6.35 x 5.08mm (P-size) or 14.2 x 5.08mm (E-size) — Anaren's revolutionary new SMT Doherty combiners are up to 1/10th the size of printed Doherty implementations.

"Our Doherty combiners are another in a long line of 'traditional' wireless components that we've revisited and re-packaged using our Xinger stripline approach," says Anaren Wireless Group product line manager Bo Jensen. "As with other Xinger parts, our customers will find multiple value-added features with these — from smaller footprints, to lower or comparable insertion loss characteristics, to vastly improved repeatability over PCB-printed Doherty combiners."

Part no.	Dim. (mm)	Dim. (in)	Freq. (MHz)	Power (CW)	Ins. Loss (dB)	Ret. Loss (dB)	Phase Bal. (dB)	Amp. Bal. (dB max)
X3DC19P1S	6.35 x 5.08	0.25 x 0.20	1700-2000	50	0.20	22	89 +/- 4.0	+/- 0.20
			1805-1880	50	0.17	25	88 +/- 4.0	+/- 0.14
			1930-1990	50	0.2	25	94 +/- 4.0	+/- 0.20
			1880-1920	50	0.17	25	90 +/- 4.0	+/- 0.15
X3DC07E2S	14.2 x 5.08	0.56 x 0.20	728-768	200	0.15	20	90 +/- 3.0	+/- 0.12
X3DC08E2S	14.2 x 5.08	0.56 x 0.20	869-894	200	0.15	20	90 +/- 3.0	+/- 0.12
X3DC09E2S	14.2 x 5.08	0.56 x 0.20	925-960	200	0.15	20	90 +/- 3.0	+/- 0.12
X3DC18E2S	14.2 x 5.08	0.56 x 0.20	1805-1880	200	0.15	20	90 +/- 3.0	+/- 0.12
X3DC19E2S	14.2 x 5.08	0.56 x 0.20	1930-1990	200	0.15	20	90 +/- 3.0	+/- 0.12
X3DC21E2S	14.2 x 5.08	0.56 x 0.20	2110-2170	200	0.15	20	90 +/- 3.0	+/- 0.12

For amplifier OEMs, who typically 'print' Doherty combiners directly onto PCB material — Anaren's new surface-mountable components offer distinct advantages, including:

- > **Smaller footprint** — provides space for additional components/functionality or for the use of a smaller overall design
- > **Lower insertion loss** — in a fraction of the space, achieve the same loss achievable with thick, expensive, high-performance PCB
- > **Superior unit-to-unit consistency** — Xinger-brand components are pre-tested and offer highly repeatable performance compared to the variability seen with low-cost PCB manufacturing
- > **The option to choose less costly PCB** — switching to an SMT solution lets the eOEM use a standard FR4-type board material (no more of overcompensating for poor insertion loss of printed combiners by using top-of-the-line board)
- > **High reliability** — our softboard SMT solution matches the CTE characteristics of PCB
- > **Xinger-brand Doherty splitters (5dB couplers) available, as well** — to save additional time and trouble, when the OEM is developing an asymmetrical Doherty implementation
- > **Readily available** — As with other Anaren standard components targeted to the wireless market, this new line is available through Anaren's authorized, stocking distributors: Richardson RFPD (worldwide), Avnet (Asia), and BFI Optilas (Europe).

Design engineers interested in learning more about Anaren's new family of Xinger-brand Doherty combiners are — including access to datasheets, S-parameters, RoHS documentation, test boards (for qualified prototyping projects), or pricing — are encouraged to visit the company's website at www.anaren.com or email sales@anaren.com

ABOUT ANAREN: An innovative leader in microwave and RF technology, Anaren designs and manufactures complex components and subsystems for defense, satellite, wireless, and consumer electronics markets. **To learn more, visit www.anaren.com**

The Anaren, Inc. logo is available at <http://www.globenewswire.com/newsroom/prs/?pkgid=5360>

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