

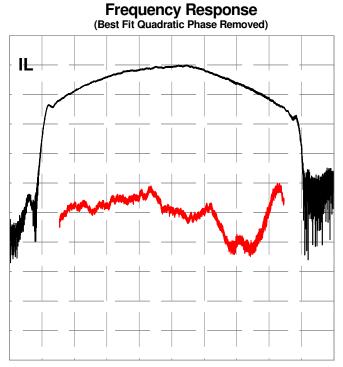
Specifications

Parameter	Symbol	Min	Typical	Max	Unit	
Center Frequency	F ₀		500		MHz	
Bandwidth	В		500		MHz	
Dispersion	Т		2.5		µsec	
Delay	To	3.1	3.115	3.14	µsec	
Insertion Loss	IL		34.4	37	dB	
Slope	S ₀	-0.0051	-0.005	-0.0048	µs/MHz	
Pulse Width at -3 dB			0.0023	0.0025	µsec	
Sidelobes for $ t - T_0 < T$			-23.1	-13	dB	
Time Spurious for $ t - T_0 > T$			-61	-56	dB	
Substrate Material			YZ-LN			

Notes

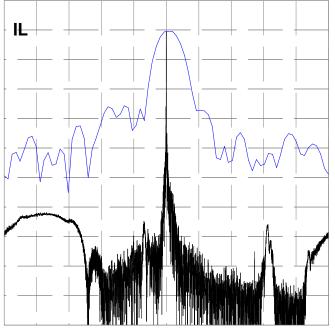
- 1. Center Frequency (F_0) and Bandwidth (B) are defined, not measured. Dispersion (T) is defined as $|B * S_0|$.
- 2. Insertion Loss is the minimum loss for $|f F_0| < .5B$
- 3. Delay and Slope determined by best fit quadratic pulse in $|f F_0| < .5B$.
- 4. Specifications are at 22 °C only. Unit will operate undamaged from -54 °C to 125 °C with shifts dF₀ = -x * F₀, dT₀ = x * (T₀ + S₀ * F₀), dS₀ = x * 2 * S₀, where x = 94E-6 * (temperature – 22 °C)

Typical Performance



10 dB/div, 10 deg/div, 65.000 MHz/div





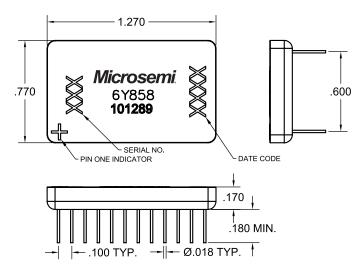
10 dB/div, 0.800 us/div, 0.004 us/div



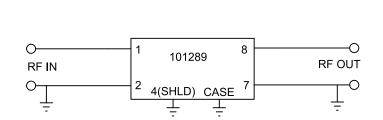
101289C

ID500-500-2.5W-500 MHz Dispersive Delay Line 500 MHz Bandwidth

Package Outline



Matching





Microsemi Corporate Headquarters

One Enterprise, Aliso Viejo, CA 92656 USA Within the USA: +1 (800) 713-4113 Outside the USA: +1 (949) 380-6100 Fax: +1 (949) 215-4996 Email: sales.support@microsemi.com www.microsemi.com

©2017 Microsemi Corporation. All rights reserved. Microsemi and the Microsemi logo are registered trademarks of Microsemi Corporation. All other trademarks and service marks are the property of their respective owners.

Microsemi Corporation (Nasdaq: MSCC) offers a comprehensive portfolio of semiconductor and system solutions for aerospace & defense, communications, data center and industrial markets. Products include high-performance and radiation-hardened analog mixed-signal integrated circuits, FPGAs, SoCs and ASICs; power management products; timing and synchronization devices and precise time solutions, setting the world's standard for time; voice processing devices; RF solutions; discrete components; enterprise storage and communication solutions, security technologies and scalable anti-tamper products; Ethernet solutions; Power-over-Ethernet ICs and midspans; as well as custom design capabilities and services. Microsemi is headquartered in Aliso Viejo, California and has approximately 4,800 employees globally. Learn more at www.microsemi.com.

Microsemi makes no warranty, representation, or guarantee regarding the information contained herein or the suitability of its products and services for any particular purpose, nor does Microsemi assume any liability whatsoever arising out of the application or use of any product or circuit. The products sold hereunder and any other products sold by Microsemi have been subject to limited testing and should not be used in conjunction with mission-critical equipment testing of the products, alone and together with, or installed in, any end-products. Buyer shall not rely on any data and performance specifications or parameters provided by Microsemi Lis the Buyer's responsibility to independently determine suitability of any products and to test and verify the same. The information provided by Microsemi hereunder is provided "as is, where is" and with all faults, and the entire risk associated with such information is entirely with the Buyer. Microsemi does not grant, explicitly to any party any patent rights, licenses, or any other IP rights, whether with regard to such information itself or anything described by such information. Information provided in this document is provided and services at any time without notice.

MSCC-0347-DS-01027-2.00-0717