

Dielectric Diplexer

27.50L x 9.90W x 5.70H (mm)

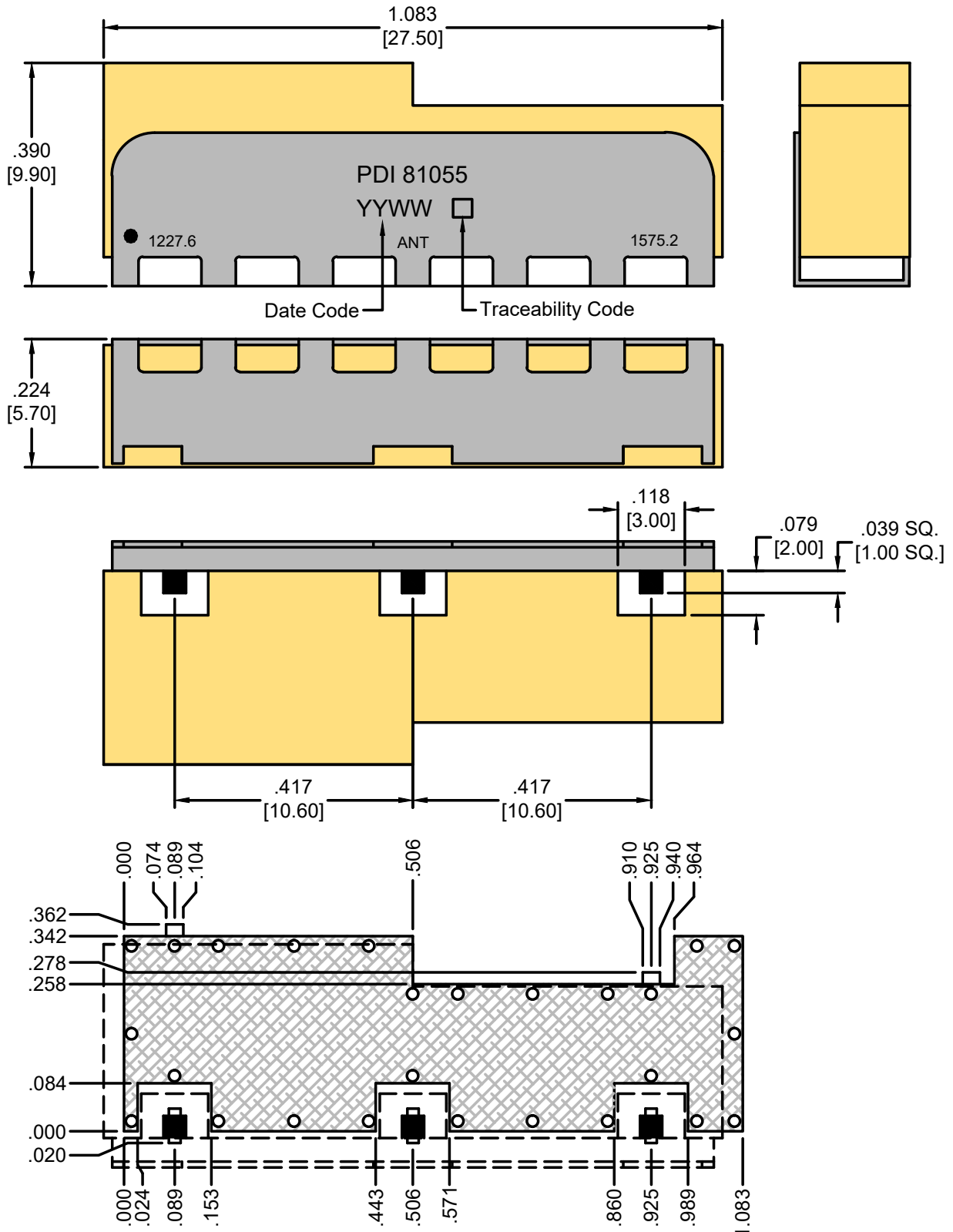
Parameter	Conditions	Min	Typ	Max	Unit
Center Frequency Fo	L1		1227.6		MHz
	L2		1575.2		
Bandwidth	L1	1212.6		1242.6	MHz
	L2	1560.2		1590.2	
Insertion Loss in BW @ 25°C	L1			1.3	dB
	L2			1.35	
Insertion Loss in BW @ -40°C to +105°C	L1			1.5	dB
	L2			1.5	
Ripple in BW @ 25°C	L1 @ 1212.6 to 1242.6MHz			0.9	dB
	L1 @ 1212.37 to 1222.37MHz			0.4	
	L1 @ 1232.38 to 1242.38MHz			0.4	
	L2 @ 1560.2 to 1590.2MHz			0.9	
	L2 @ 1562.69 to 1567.69MHz			0.4	
	L2 @ 1584.15 to 1589.69MHz			0.4	
Ripple in BW @ -40°C to +105°C	L1 @ 1212.6 to 1242.6MHz			1.0	dB
	L1 @ 1212.37 to 1222.37MHz			0.5	
	L1 @ 1232.38 to 1242.38MHz			0.5	
	L2 @ 1560.2 to 1590.2MHz			1.0	
	L2 @ 1562.69 to 1567.69MHz			0.5	
	L2 @ 1584.15 to 1589.69MHz			0.5	
Attenuation @ 25°C	L1 @ 0.1 - 1152.6MHz	31.1			dB
	L1 @ 1302.6 to 1900.0MHz	31.1			
	L2 @ 0.1 - 1500.42MHz	31.3			
	L2 @ 1650.42 to 2300.0MHz	31.3			
Attenuation @ -40°C to +105°C	L1 @ 0.1 - 1152.6MHz	30.1			dB
	L1 @ 1302.6 to 1900.0MHz	30.1			
	L2 @ 0.1 - 1500.42MHz	30.3			
	L2 @ 1650.42 to 2300.0MHz	30.3			

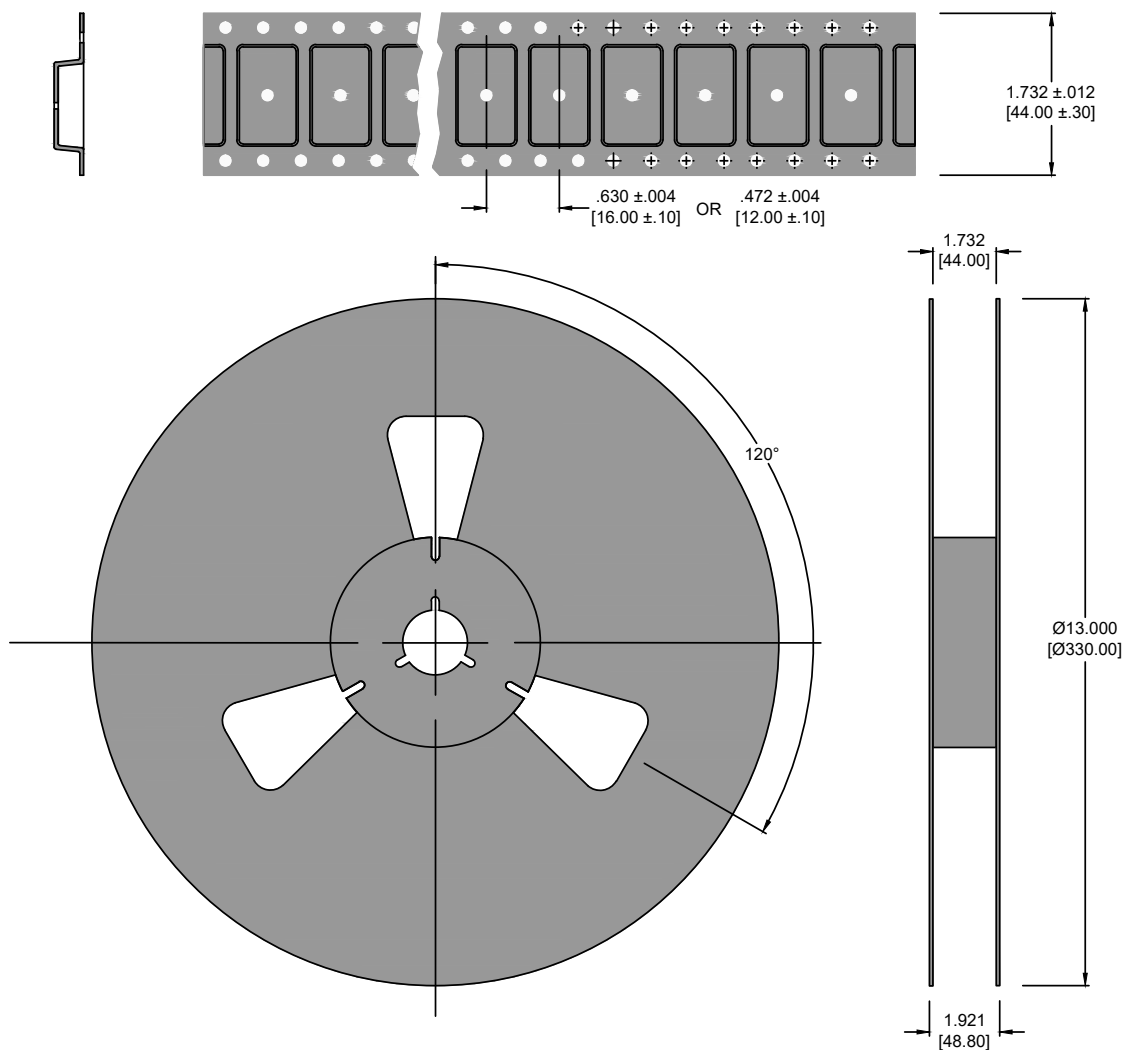
Date	Description	FOR PRELIMINARY USE ONLY		
		Specifications subject to change.		
		Dielectric Diplexer		
		PART #: FTR-81055	81055-ftp	
		DATE: 9-15-2025	DRAWN BY: B. Arnold	
9-15-25	Group Delay Changed to 17.0nS Max	CAGE CODE: 054G1	SCALE: NTS	PAGE: 1 of 4

Parameter	Conditions	Min	Typ	Max	Unit
Return Loss	@ -40°C to +105C	15.0			dB
Group Delay	@ Fo	9.0	12.0	17.0	nS
Group Delay Ripple @ 25°C	L1 @ 1212.6 to 1242.6MHz			5.0	nS
	L1 @ 1212.37 to 1222.37MHz			4.0	
	L1 @ 1232.38 to 1242.38MHz			4.0	
	L2 @ 1560.2 to 1590.2MHz			5.0	
	L2 @ 1562.69 to 1567.69MHz			4.0	
	L2 @ 1584.15 to 1589.69MHz			4.0	
Group Delay Ripple @ -40°C to +105°C	L1 @ 1212.6 to 1242.6MHz			8.0	nS
	L1 @ 1212.37 to 1222.37MHz			5.0	
	L1 @ 1232.38 to 1242.38MHz			5.0	
	L2 @ 1560.2 to 1590.2MHz			8.0	
	L2 @ 1562.69 to 1567.69MHz			5.0	
	L2 @ 1584.15 to 1589.69MHz			5.0	
Input Power				1.0	W
Impedance	Input/Output		50		Ω
Operating Temperature		-40		+105	°C
Storage Temperature		-40		+85	°C

PACKAGE DIMENSIONS

Tolerance: .012 [.30] (Unless otherwise specified)



Tape and Reel**Reflow Profile**