SPECIFICATION

COMMERCIALLY AVAILABLE

ITEM: CERAMIC DUPLEXER PART NUMBER: FNP-1451

Also available as SMD, see CFD-2072224514

ISSUED / REVISION	ENGINEER APPROVED	DOCUMENT CHECKED	DRAFTSMAN
06/25/18 ^{PG}			

FILTRONETICS Inc

1. Application

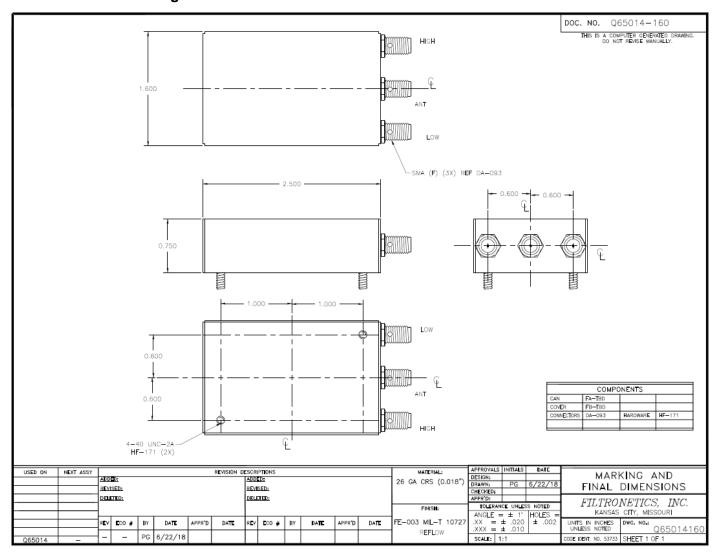
THIS SPECIFICATION APPLIES TO A BAND PASS DUPLEX FILTER USING DIELECTRIC RESONATORS.

2. Part Number: FNP-1451

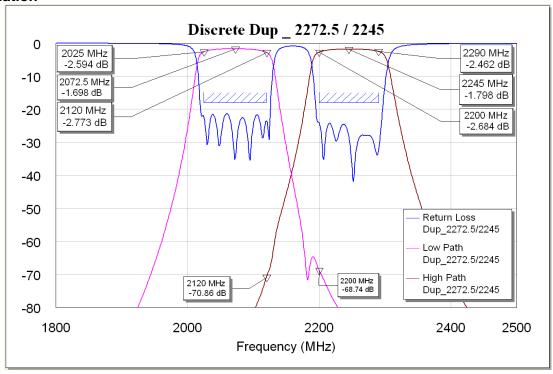
3. Electrical Specifications:

	Unit	Specification		
Parameter		Low Band (Rx)	High Band (Tx)	
Center Frequency	MHz	2072.5	2245	
Bandwidth	MHz	2025 ~ 2120 MHz	2200 ~ 2290 MHz	
Insertion Loss in BW	dB	3.3 Max		
Ripple in BW	dB	1.5 Max		
Return Loss in BW	dB	16.0 Min		
Attenuation	dB	60 Min @ 2200 ~ 2290 MHz	60 Min @ 2025 ~ 2120 MHz	
		60 Min @ 1400 ~ 1650 MHz		
IN/OUT Impedance	Ω	50		
Input Power	Watt	5 Max		
Operating Temperature	°C	-40 ~ +85		

4. Mechanical Package



5. Simulation



6. Definitions

TERMS	DESCRIPTION	SPECIFICATION
Center Frequency	The midpoint of through band pass filter pass band, normally expressed as the arithmetic mean of the -3db point. Also called fo.	
Pass Band Width	The width of the pass band of a filter referenced to the minimum insertion loss point in the pass band. The pass band of a filter is stated as -1.0dB bandwidth.	3. SPECIFICATION
Insertion Loss	The loss of the filter, in db, measured at center frequency relative to a through line (0 dB).	
Attenuation	Reduction of RF power through a filter measured in dB, at desired band and referenced to 0 dB. (Filter to be removed from circuit)	
Pass Band Ripple	Variations in loss in the pass band of the filter, superimposed upon the fundamental shape of the pass band.	
V.S.W.R in Pass Band	The ratio of the maximum value of a standing wave to its minimum value, related to the return loss in pass band.	