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MtronPTI Model: UF9927R

ENG. Approval: _____

DATE _____ / _____ / _____

MFG. Approval: *[Signature]*

DATE 5 / 8 / 19

QA Approval: *[Signature]*

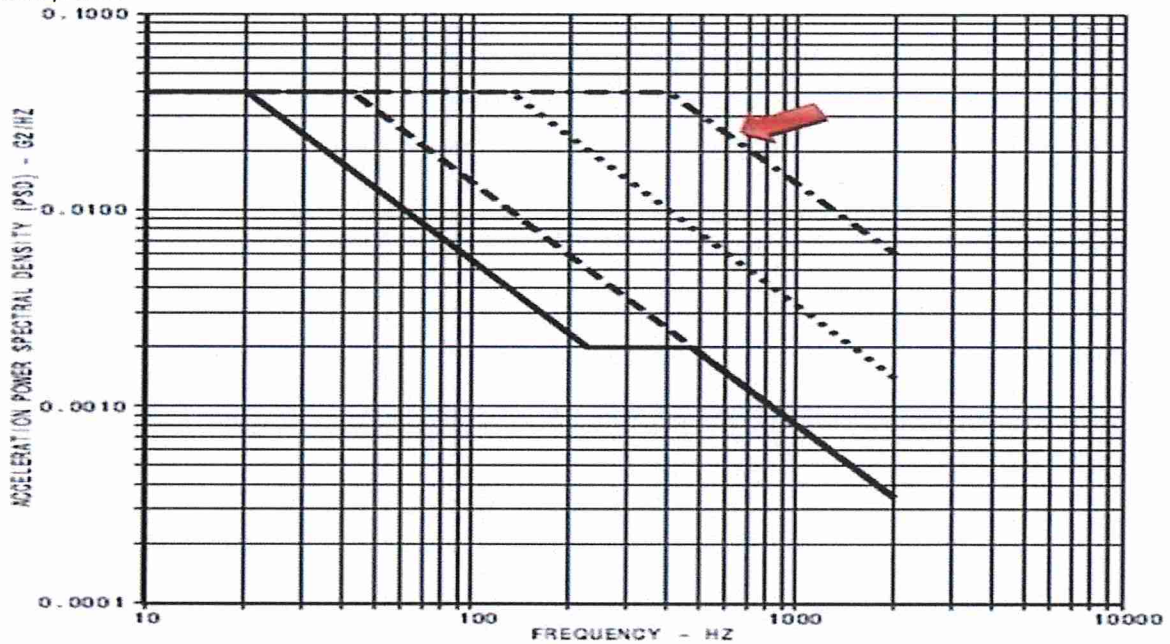
DATE 5 / 6 / 19

Specification for Iridium Band Filter MtronPTI P/N: UF9927R

I. Specifications:

Parameter	Specification	Room	Over Temp
Pass Band	1616~1626.5MHz		
Insertion loss	Max.	2.0dB	2.8dB
Return loss	Min.	18.0dB	18.0dB
Rejection	Min. @ 1-1585MHz	45.0dB	45.0dB
	Min. @ 1605MHz	37.0dB	35.0dB
	Min. @ 1610MHz	27.0dB	20.0dB
	Min. @ 1650-12000MHz	35.0dB	35.0dB
Input Power	Avg. 1W, Peak 10W		
Operating Temperature Range	-40 to +85°C		
Connector	SMA Female		
Vibration (survival)	5 hours per axis(x,y,z) @ 6.2G with random frequencies between 10Hz and 2000Hz		

Vibration profile



Zone 4, Category C - - - - -

Frequency - Hz	PSD - G ² /Hz
10	0.04
400	0.04
2000	0.006

Overall Acceleration - 6.2 Gms

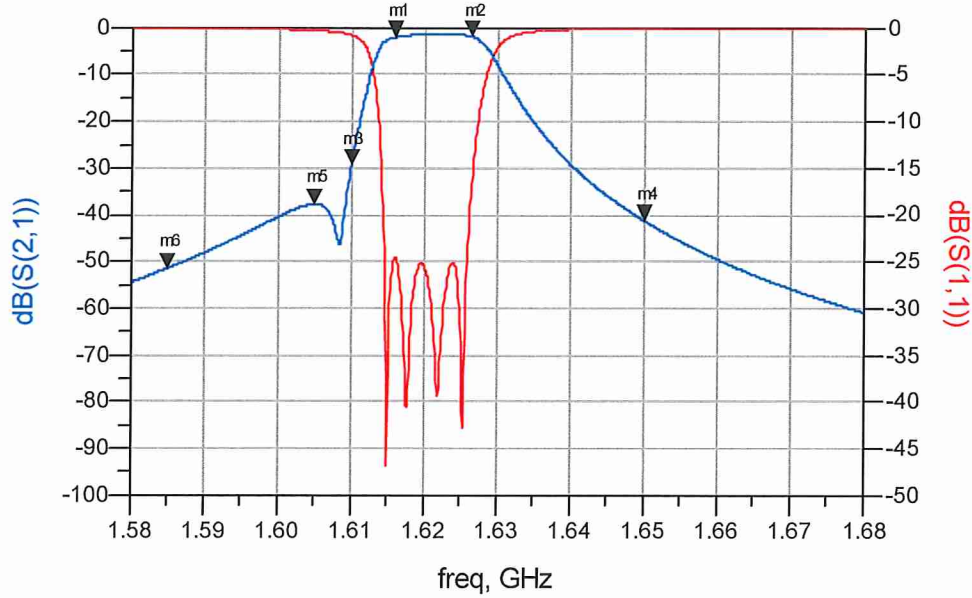
Note: vibration for qualification test



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II. Design Simulation Plots:

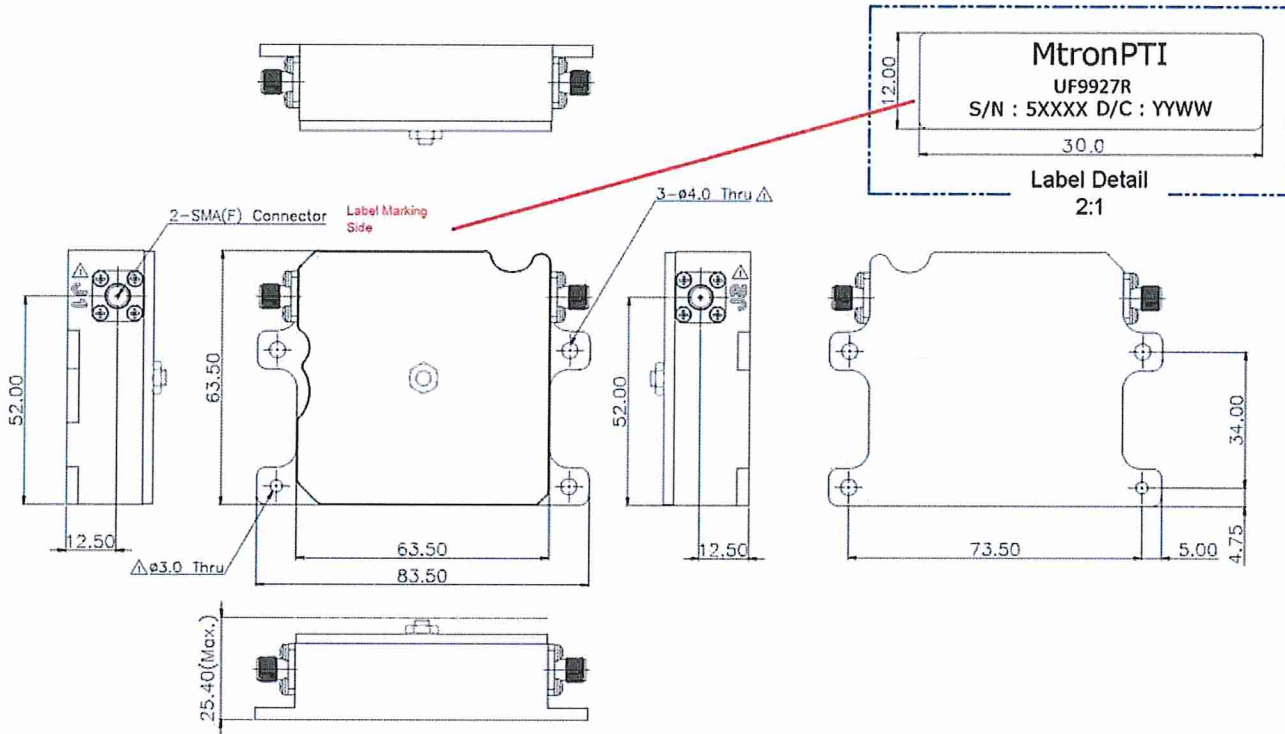
m1	m2	m3	m4	m5	m6
freq= 1.6160GHz	freq= 1.6265GHz	freq= 1.6100GHz	freq= 1.6500GHz	freq= 1.6050GHz	freq= 1.5850GHz
dB(S(2,1))=-1.9242	dB(S(2,1))=-1.8323	dB(S(2,1))=-29.2516	dB(S(2,1))=-41.2176	dB(S(2,1))=-37.6876	dB(S(2,1))=-51.3966





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III. Mechanical Design



Dimension in mm; ref Diagram.

IV. Datasheet Revision Table:

Date	Rev.	Author	Details of Revision
05-01-19	C	DPD	Label size changed from 43mm to 30mm
04-30-19	B	DPD	Label location updated..
03-28-19	A	DPD	Production Release.