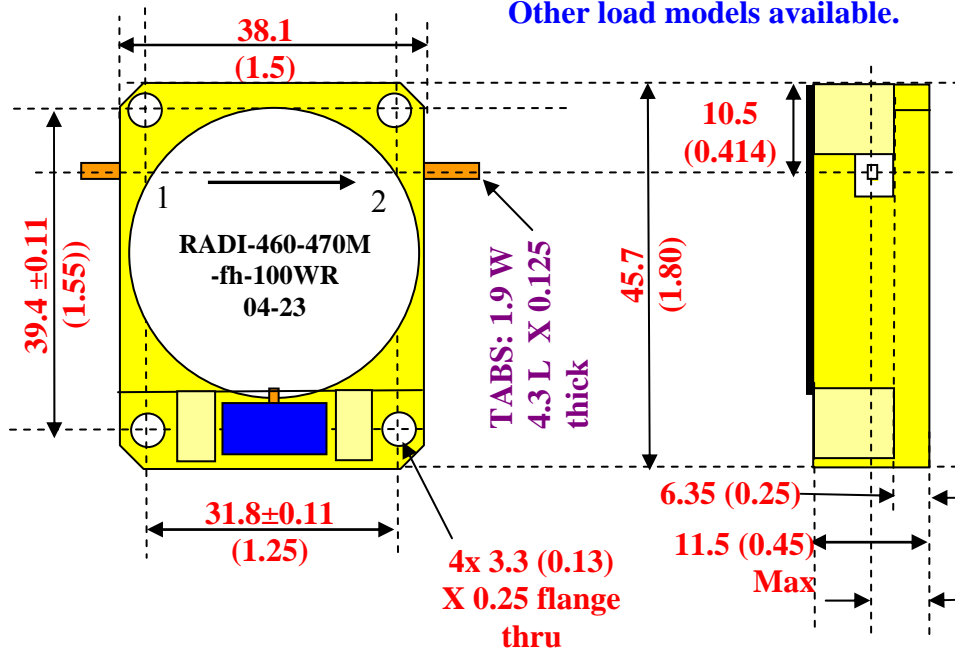


## ISOLATOR, STRIPLINE DROP-IN, FH

code-sj

370 TO 625 MHz, 100 WATTS

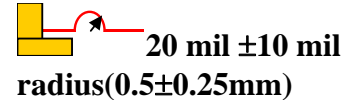
Other load models available.



Units: mm (Inches)

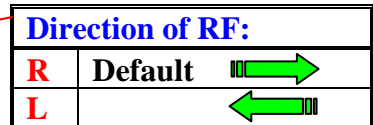
Not to scale.

Standard ff strain relief.



Tab plating: Silver plated Beryllium Copper.  
Leads have stress relieve.

Order Examples: **RADI-420-450M-FH-100WR**



Specifications (over full operating temperature range)

: Use as rough guide only:-

Specifications						
Bandwidth (max.)	MHz	5	10	20	25	30
Insertion loss	dB (Min)	0.25	0.35	0.4/5	0.5	0.6
Isolation	dB (Max)	21	20	19	19	18
Return Loss	dB (Max)	21	20	20	20	20
Rated power (Forward)		300	300	300	300	300
Rated power (Reverse)	Watts	100	100	100	100	100
Operating temperature	°C	-30 to +85	-30 to 85	-30 to 85	-30 to 85	-30 to 85
Storage temperature	°C	-40 to 110	-40 to 110	-40 to 110	-40 to 110	-40 to 110

Weight FF	0.2075	lbs
	0.0942	kg

Note: Handles Peak power of ≤200 W at pulse duration ≤50µs.  
Also at 150 Watts Peak for ≤1.5msec. Pulse Width @ 5% Duty Cycle.  
\*See also ff Circulator model

RADI-370-625M-FH-100WR-sj

Specifications may be subject to change

02/26/07

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**ROHS Compliant**

# RADITEK INC.

## ISOLATOR, STRIPLINE DROP-IN, FH

code-sj

370 TO 625 MHz, 100 WATTS

**Full band, Full temp, Unless specified**

Freq Mhz	BW %	Insertion Loss, dB Max	Isolation Minimum dB	Return Loss Minimum dB	VSWR		
370-400		0.6	18	18			
380-395		0.35	18	19			
380-420		0.7	18	18			
390-395		0.25	23	23			
400-450		0.45	15	15		0.4 / 16 / 16 @ RT	
400-460		1.0	17	17			
410-420		0.4	19	19			
410-470		1.0	17	17			
420-450		0.35	19	19			
420-470		0.9	17	17			
425-430		0.3	21	21			
425-455		0.5	19	19			
430-450		0.4	19	19			
443-496		0.5	18	18			
445-455		0.35	20	20			
445-460		0.35	19	19			
450-470		0.35	19	19			
450-500		0.4	18	18			
454-476		0.35	19	19			
458-470		0.35	19	19			
460-470		0.35	19	19			
460-486		0.4	20	19			
489-495		0.3	20	20			
575-625		0.5	19	19			
578-584		0.4	19	19			

RADI-370-625M-FH-100WR-sj

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## ISOLATOR, STRIPLINE DROP-IN, FH 370 TO 625 MHz, 100 WATTS

code-sj

Frequency (F <sub>LO</sub> F <sub>HI</sub> )		401 – 420 B	420 – 470 B	430 – 450 B		
Bandwidth	MHz	Full	Full	Full		
Insertion loss	dB (Min)	0.5	0.6	0.3		
Isolation	dB (Max)	20	18	22		
Return Loss	dB (Max)	20	19	22		
VSWR, input / output		1.3:1	1.25	1.25		
Rated power (Forward)	Watts	200	200	200		
Rated power (Reverse)	Watts	100	30	30		
Operating temperature	°C	0 to 85	-25 to +85	-25 to +85		
Storage temperature	°C	-40 to 110	-40 to +125	-40 to +125		

### **Analysis of Difference FG-b model and FH-sj model**

		FH-Sj	FG-b	
Dimensions: All same except	Height	11.5mm (0.45")	9.3mm (0.37")	
	Tab Height	3.3 mm (0.13")	4.0mm (0.157")	Tabs have strain relief so can accept either height
	Hole Diameter	3.43 mm (0.125")	3.4 mm (0.134")	
	Mounting Screw height	6.35mm (0.25")	9.3mm (0.37")	
	Spec 420-450MHz	0.3/19/1.25 at -30-80C	0.5/20/1.3 at 0-80C	
Delivery		21days	49 days	