

HALF SIZE CRYSTAL CAN RADIO FREQUENCY RELAY 75 WATT



Product Description

This series of coaxial terminated hermetically sealed relays have been designed to provide reliable switching functions in the most demanding radio frequency applications. The use of 2K relays in the basic construction, has been coupled with a unique and improved termination network to insure faultless performance under severe environmental conditions.

The design concepts employed in each of this series have been time tested through thousands of hours testing and millions of field operations to provide the highest degree of reliability.

The following construction features ensure the highest reliability in extreme environments:

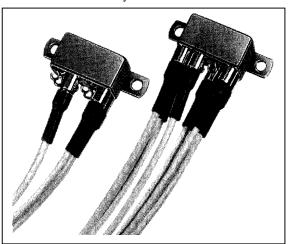
- All welded relay construction
- Cleaning and sealing techniques ensures maximum internal cleanliness
- Low level to 2 amperes auxiliary switching
- 1 or 2 form C, RF contacts, special metal alloy with gold plating
- Frame, armature designs and force / mass ratio provides exceptional shock and vibration immunity
- Coax interconnections
- 200 watt RF carry capability
- 75 watt RF switching capability
- Terminated with 6 inches length RG178 cable (or equivalent).

Series Types

- **RFK** 1 form C, SPDT
- **2RFK** 2 form C, DPDT

Environmental and Physical Specifications

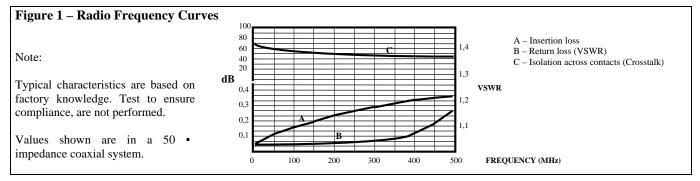
Temperature (Ambient)	$-65^{\circ}C \text{ to } + 125^{\circ}C$
Shock	100 g, 6 ms.
Vibration (sinusoidal)	20 g, 10 to 2000 Hz
Acceleration	30 g
Sealing	All welded, Hermetic



Electrical Characteristics (over the Temperature range. Unless otherwise noted)

See Typical Characteristics chart				
Type Load	Contact Load	Cycles min.		
Resistive	2 A / 28 Vdc (aux)	100.000		
	75 Watts RF Switching, 200 Watts carry (cold switching)	100.000		
0,05 • max. initial aux. Contact				
4,0 ms. max. at 25°C				
2,0 ms. max. at 25°C				
500 Vrms, 60 Hz, all mutually insulated points, at sea level				
1.000 M• min. all points at 500 Vdc				
250 mW at pick-up, at 25 °C				
	Type Load Resistive 0,05 • max. initial au 4,0 ms. max. at 25°C 2,0 ms. max. at 25°C 500 Vrms, 60 Hz, all r 1.000 M• min. all point	Type Load Contact Load Resistive 2 A / 28 Vdc (aux) 75 Watts RF Switching, 200 Watts carry (cold switching) 0,05 • max. initial aux. Contact 4,0 ms. max. at 25°C 2,0 ms. max. at 25°C 500 Vrms, 60 Hz, all mutually insulated points, at sea level 1.000 M• min. all points at 500 Vdc		

Frequency range	0 to 500 MHz (derated characteristics to 1000 MHz)			
	Typical at 100 MHz Typical at 500 MHz			
Voltage Standing Wave Ratio (VSWR)	< 1,1:1	< 1,2:1		
Insertion Loss	0,16 dB	0,5 dB		
Crosstalk	50 dB	40 dB		
Power Switching	75 Watts	50 Watts		
Power Handling	200 Watts max.			
Characteristic Impedance	50 or 75 • (other impedances available on special order)			

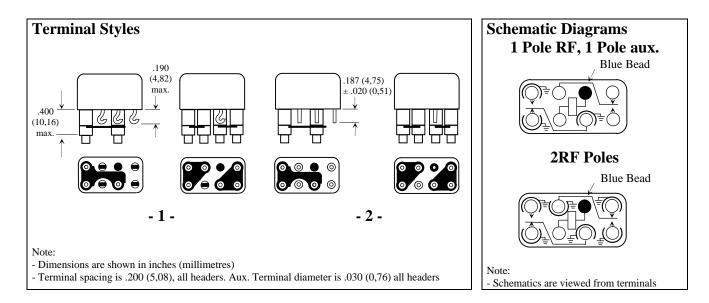


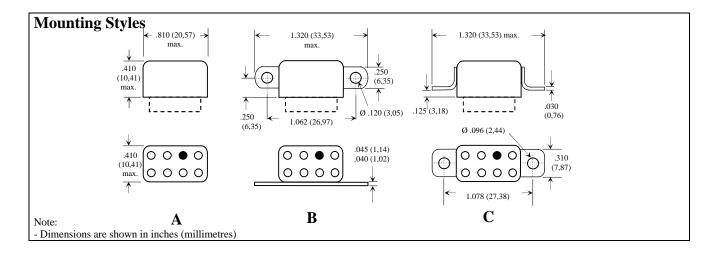


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Typical Characteristics

Voltage	Coil Voltage		Coil Resistance	Pick-up Vdc	Drop-out Vdc
Code	Nominal	Max.	± 10% at 25°C	Max. at 25°C	Min. at 25°C
106	6,0	7,2	40	3,3	0,3
112	12,0	14,4	150	6,5	0,7
126	26,5	32,0	675	13,5	1,5





Note:	How to Order (Part Numbering System)			
	1 Pole	RFK - 2 A	- 126	
Contact factory for other cable types and lengths	2 Poles	2RFK - 2 A	- 126	
	Series Type		Voltage Code	
	Terminal Style		Mounting Style	