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140-174, 400-490 MHz Mobile preselectors PS2-3V, PS2-3U

Electrical specifications

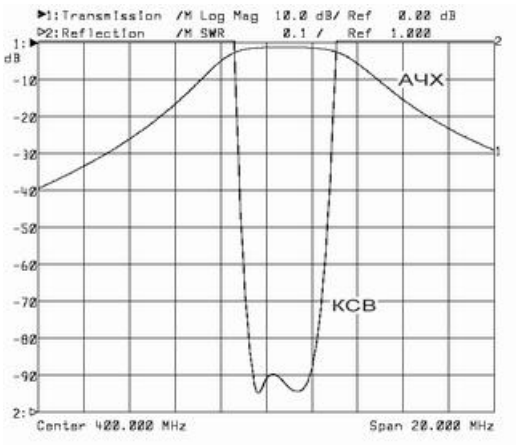
Model	PS2-3V(L)	PS2-3V(H)	PS2-3U(L)	PS2-3U(H)
Operating frequency band, MHz	140-165	150-175	400-460	430-490
Insertion loss (adjustable) not more, dB		1,3		1,5
Max. frequency bandwidth, MHz		1,5		2,5
Impedance, Ohm			50	
Gain			see figure	
VSWR, not more than			1,3	
Input power, W			not more than 150	
Temperature range, °C			from -30 to +50	

Mechanical specifications

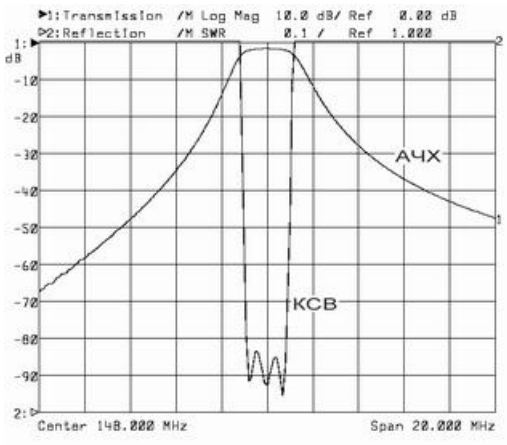
Model	PS2-3V(L)	PS2-3V(H)	PS2-3U(L)	PS2-3U(H)
Diameter, mm (ins.)			50 (2")	
Weight, kg			1,04	
Connector			N-female	
Mount to 19-inch rack			optional	
Length/Width/Depth not more, mm			150x150x50	

This compact bandpass three-section helical resonator filter was specifically designed for application in receiving distribution panels for RX section of multichannel mobile wireless communication systems. We have designed selective device with optimal price/quality ratio thanks to particularly selected dimensions of resonators, construction simplification and advanced assembly technique. Such filters are much inexpensivier than coaxial resonator modifications, their response curves totally comply with requirements of input filter of a distribution panel of a tranking system. Filter design allows for not only frequency readjustment but also inter-cavity coupling depth tuning, enabling to adjust all devices for minimal VSWR. Application of N-type joints allows employing of these modern, highly effective connectors with standardized impedance value all over section. PS2-3V operating temperature range will fully satisfy those customers, which has its equipment installed in a heated room or in a garret. Considering increased flooding of 380-490 frequency range with transmitters application of concerned preselectors becomes nowadays essential even in areas with relatively serene electromagnetic environment.

Preselectors typical gain-frequency characteristics



PS2-3U



PS2-3V