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, (if ~any(size(Wind) <= 1
; 'msg = 'The window specified must be a vector
return
else
Wind = Wind(:).'; % Make it a row vector
end

-----%
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(function [nbands,ff,Ftype,msg] = desiredfreq(Wn,Ftype
.DESIREFREQ Compute the vector of frequencies to pass to FIRLS%
%
%
:Inputs %
.Wn - vector of cutoff frequencies %
(...,'Ftype - string with desired response ('low','high %
%
%
:Outputs %
.nbands - number of frequency bands %
.ff - vector of frequencies to pass to FIRLS %
Ftype - converted filter type (if it's necessary to %
(convert

.Initialize output args %
;[] = nbands
;[] = ff
;' = msg

,( if any( Wn<0 | Wn>1
;'.msg = 'Frequencies must fall in range between 0 and 1
return
end
,(if any(diff(Wn)<0
; 'msg = 'Frequencies must be increasing
return
end

;'(:)Wn = Wn

;nbands = length(Wn) + 1

,('if (nbands > 2) && strcmpi(Ftype,'bandpass
Ftype = 'DC-0'; % make sure default 3 band filter is bandpass
end

;[ff = [0,Wn(1:nbands-1); Wn(1:nbands-1),1
;(:)ff = ff

-----%
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(function [aa,First_Band] = desiredmag(Ftype,nbands
.DESIREDMAG Compute the magnitude vector to pass to FIRLS%

```