

Table 9-1 Limits for the Transmission Characteristics for 2RC Long-Wavelength Cutoff Filters

Spatial Wavelength		Long-Wavelength Cutoffs				
		0.08 mm (0.003 in.)	0.25 mm (0.010 in.)	0.8 mm (0.030 in.)	2.5 mm (0.100 in.)	8.0 mm (0.300 in.)
0.008	0.0003	97-103	---	---	---	---
0.010	0.0004	96-102	---	---	---	---
0.025	0.001	93-100	97-103	---	---	---
0.05	0.002	84-93	95-102	---	---	---
0.08	0.003	70-80	93-100	97-103	---	---
0.1	0.004	60-71	91-98	96-103	---	---
0.25	0.01	20-27	70-80	93-100	97-103	---
0.5	0.02	6-8	38-48	84-93	95-102	---
0.8	0.03	2-3	19-26	70-80	93-100	97-103
1.0	0.04	---	13-18	60-71	91-98	96-102
2.5	0.1	---	2-3	20-27	70-80	93-100
5.0	0.2	---	---	6-8	38-48	84-93
8.0	0.3	---	---	2-3	19-26	70-80
10.0	0.4	---	---	---	13-18	60-71
25.0	1.0	---	---	---	2-3	20-27
50.0	2.0	---	---	---	---	6-8
80.0	3.0	---	---	---	---	2-3

as a function of its spatial wavelength. This transmission characteristic is produced by a Gaussian profile weighting function as defined in this Section. The equation is as follows:

$$\frac{\text{Filter Output}}{\text{Filter Input}} = e^{-\alpha(\lambda/\lambda_s)^2}$$

where $\alpha = \sqrt{[\ln(2)]/\pi} = 0.4697$ and λ_s is the roughness short-wavelength cutoff. Examples of the transmission characteristic for several values of λ_s (and also λ_c) are given in Fig. 9-2.

9-5.6 Weighting Function for the Roughness Short-Wavelength Cutoff. The weighting function of the Gaussian phase correct filter for the roughness short-wavelength cutoff has a Gaussian form, similar to that to be discussed in para. 9-5.7 and shown in Fig. 9-3. The equation for the weighting function $S(x)$ is as follows:

$$S(x) = (\alpha\lambda_s)^{-1} e^{-\alpha(x/\lambda_s)^2}$$

where x is the lateral position from the mean of the weighting function. The direct result of this filtering process is a smoothed profile, that is, one whose short wavelengths are attenuated.

9-5.7 Weighting Function for the Roughness Long-Wavelength Cutoff. The weighting function of the Gaussian phase correct filter for the roughness long-wavelength cutoff (Fig. 9-3) has a Gaussian form. With the long-wavelength cutoff λ_c , the equation is as follows:

$$S(x) = (\alpha\lambda_c)^{-1} e^{-\alpha(x/\lambda_c)^2}$$

In this case, the smoothed profile that results from applying the long-wavelength filter is the roughness mean line, and the roughness profile is found by subtracting this roughness mean line from the original measured profile.

9-5.8 Transmission Characteristic of the Gaussian-Filtered Waviness Profile (Roughness Mean Line). The transmission characteristic of the roughness mean line is determined from the weighting function $S(x)$ by means of the Fourier transform (see Section 1) and is given in Fig. 9-4. The transmission characteristic for the mean line has the following equation:

$$\frac{\text{Filter Output}}{\text{Filter Input}} = e^{-\alpha(\lambda/\lambda_s)^2}$$

9-5.9 Transmission Characteristic of the Gaussian-Filtered Roughness Profile. The transmission characteristic of the Gaussian filtered roughness profile (see Figs. 9-2 and 9-5) is the complement to the transmission characteristic of the roughness mean line, as defined in para. 9-5.8, because the roughness profile is the difference between the measured profile and the roughness mean line. The equation is therefore given by the following:

$$\frac{\text{Filter Output}}{\text{Filter Input}} = 1 - e^{-\alpha(\lambda/\lambda_s)^2}$$

9-5.10 Errors of Approximations to the Gaussian Filter. No tolerance values are given for Gaussian filters as they were for 2RC filters in para. 9-4.3. Instead, a

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